



# BOARD OF COMMISSIONERS

1 S. Main St., 9th Floor  
Mount Clemens, Michigan 48043  
586-469-5125 FAX 586-469-5993  
macombcountymi.gov/boardofcommissioners

## PLANNING AND ECONOMIC DEVELOPMENT COMMITTEE

WEDNESDAY, MAY 13, 2009

### AGENDA

1. Call to Order
2. Pledge of Allegiance
3. Adoption of Agenda, **as amended, to remove item #14B and add items #10(G) and (H) and #14C**
4. Public Participation
5. **Regional Partnerships** (mailed)
  - A) Presentation from Detroit Convention and Visitor's Bureau's CEO Larry Alexander
  - B) SEMCOG Reports on Residential Construction and Non-Residential Development
6. **Community Development** (mailed)
  - A) Report on Neighborhood Stabilization Program
  - B) Approval of 2009 Annual Plan, 2009-2013 Consolidated Plan
  - C) Approval of HOME Funding for Springhill Housing and Solid Ground
  - D) Approval of Home Prevention Rapid Re-Entry Program Grant
7. **Business Retention** (mailed)
  - A) Report on TACOM/TARDEC Visit
8. **Business Attraction** (mailed)
  - A) Report on Hannover, Germany (Wind Energy) Exhibition
  - B) Report on Chicago Wind Power 2009
  - C) Update on China Delegation Visit on June 26, 2009
9. **Business Expansion**
  - A) Macomb-Oakland University Incubator/SmartZone (No Report)
  - B) Presentation of Resolution to Achatz Homemade Pie Company – 2008 Michigan Best Small Businesses
10. **Community Planning** (mailed)
  - A) Update on Gratiot Avenue Access Management Plan
  - B) Update on Countywide Trail Master Plan
  - C) Update on University of Michigan Urban Planning Projects
  - D) Presentation of Resolution to U of M Taubman College of Architecture and Urban Planning
  - E) Adopt Resolution Designating April 1, 2010 As Census Day in Macomb County and Assistance to Communities to Promote the Census and Citizen Participation
  - F) Update on V8 Gateway Project
  - G) **Recommendation from Ad Hoc Committee on Energy Meeting of 05-05-09:** (attached)  
Authorize to Enroll in Rebuild Michigan Program for Purpose of Conducting Technical Energy Analysis on Several County Buildings
  - H) **Recommendation from Ad Hoc Committee on Energy Meeting of 05-05-09:** (attached)  
Authorize Department of Planning and Economic Development to Coordinate Preparation of Energy Efficiency and Conservation Block Grant Proposal

## MACOMB COUNTY BOARD OF COMMISSIONERS

Andrey Duzyj - District 1  
Marvin E. Sauger - District 2  
Phillip A. DiMaria - District 3  
Toni Mocerri - District 4  
Susan L. Doherty - District 5

Sue Rocca - District 7  
David Flynn - District 8  
Robert Mijac - District 9  
Ken Lampar - District 10  
Ed Szczepanski - District 11

James L. Carabelli - District 12  
Don Brown - District 13  
Brian Brdak - District 14  
Keith Rengert - District 15  
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Irene M. Kepler - District 21  
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Joan Flynn  
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William A. Crouchman - District 23  
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Kathy D. Vosburg - District 25  
Jeffery S. Sprys - District 26

**PLANNING AND ECONOMIC DEVELOPMENT COMMITTEE  
AGENDA  
MAY 13, 2009**

2

11. **Environmental** (mailed)
  - A) Authorize to Accept EPA Brownfield Grant (Initiation)
  - B) Authorize to Accept EPA Brownfield Grant (Continuation)
  - C) Report on Coastal Zone Management Program Grant
  - D) Report on Army Corp of Engineers Grant
12. **Marketing & Promotion**
  - A) Economic Development Marketing Materials (No Report)
  - B) Film Macomb (No Report)
13. **Tourism**
  - A) Lake St. Clair Initiative (No Report)
  - B) Chesterfield Township Convention Center (No Report)
14. **Administrative** (mailed)
  - A) Update on Planning and Economic Development Department Reorganization
  - B) ~~Authorize to Purchase ACT Software (item removed from agenda)~~
  - C) Recommendation from Technology and Communications Committee Meeting of 05-11-09: (attached)  
Business Contact System for Planning and Economic Development Department
15. **Economic Development Events** (mailed)
  - May 12 Homeland Security/National Defense Small Business Workshop
  - May 19 Business Planning – Growing Your Business
  - May 20 Supplier Diversification Summit
  - May 20 Entrepreneurial Series – Marketing Your Business
  - May 27 Entrepreneurial Series – Business Legal Issues
  - May 28 Entrepreneurial Series – Finance
  - May 28 Brownfield Community Outreach (Romeo)
  - June 4 Brownfield Community Outreach (Eastpointe)
16. New Business
17. Public Participation
18. Adjournment

**MEMBERS:** Bruley-Co-Chair, Carabelli-Co-Chair, D. Flynn-Vice Chair, Brown, Mijac, Vosburg, Duzyj, Accavitti, Mocerri and Gielegem (ex-officio)

5A

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Presentation from Larry Alexander, CEO, Detroit Visitors and Convention Bureau

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09

\_\_\_\_\_

\_\_\_\_\_

(Distributed in Commissioner mailboxes)

Item # 5A

PEO  
5-13-09

D-CODE THE DISTRICTS - SEE OUR SPECIAL SECTION

JUNE - DECEMBER 2009

# visitdetroit

YOUR COMPLETE GUIDE TO THE MANY FACES, PLACES AND EVENTS OF METRO DETROIT

Amazing retail, dining, nightlife and nature  
await in Macomb County / Page 8

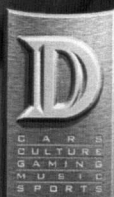
## MARVELOUS MACOMB

## DESTINATION DOWNTOWN

Tree-lined streets, spectacular  
shopping, exciting eateries —  
welcome to The D's downtowns  
Page 14

## PLAYING WITH YOUR FOOD

Enjoy fork-fun fondue, make-your-  
own-wine wineries and more in The D  
Page 20



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VISIT DETROIT

MARVELOUS MACOMB • DESTINATION DOWNTOWN • PLAYING WITH YOUR FOOD

SUMMER/FALL 2009



5B

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the SEMCOG Written Reports on Residential Construction and Non-Residential Development

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Macomb County

Table 11

### Development by Community, Macomb County

Community	Completed	Under Construction	Total
Armada Twp	0	14,750	14,750
Bruce Twp	0	14,422	14,422
Chesterfield Twp	520,000	150,000	670,000
Clinton Twp	315,000	0	315,000
Eastpointe	119,721	0	119,721
Harrison Twp	19,000	0	19,000
Lenox Twp	0	347,000	347,000
Macomb Twp	0	35,692	35,692
Mt. Clemens	9,082	0	9,082
New Baltimore	5,308	0	5,308
New Haven	14,564	0	14,564
Ray Twp	8,000	115,000	123,000
Richmond	0	24,085	24,085
Romeo	5,248	5,732	10,980
Roseville	133,318	0	133,318
St. Clair Shores	0	29,954	29,954
Shelby Twp	64,300	281,328	345,628
Sterling Heights	111,759	225,582	337,341
Utica	83,337	6,700	90,037
Warren	77,483	743,515	820,998
Washington Twp	45,207		45,207
<b>County Total</b>	<b>1,531,327</b>	<b>1,993,760</b>	<b>3,525,087</b>

Table 1

**Authorized New Housing Units and Demolitions in Southeast Michigan by County and Structure Type, Summary 2008**

<b>County</b>	<b>Single-Family Units</b>	<b>Two-Family Units</b>	<b>Townhouse-Attached Condo Units</b>	<b>Multi-Family Units</b>	<b>Total New Units</b>	<b>Units Demolished</b>	<b>Net Total Units</b>
Livingston	153	4	34	0	191	35	156
Macomb	353	16	117	27	513	204	309
Monroe	118	0	0	0	118	44	74
Oakland	537	4	79	140	760	268	492
St. Clair	92	0	0	55	147	42	105
Washtenaw	244	4	29	4	281	43	238
Wayne	491	86	128	359	1,064	3,518	-2,454
Detroit	82	70	75	335	562	3,159	-2,597
Out-Wayne	409	16	53	24	502	359	143
<b>SEMCOG Region</b>	<b>1,988</b>	<b>114</b>	<b>387</b>	<b>585</b>	<b>3,074</b>	<b>4,154</b>	<b>-1,080</b>

Table 2

**Comparison of Units Authorized in Southeast Michigan by County, 2005-2008**

<b>County</b>	<b>Authorized New Dwelling Units</b>				<b>Percent Change</b>		
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>05-06</b>	<b>06-07</b>	<b>07-08</b>
Livingston	1,527	637	369	191	-58%	-42%	-48%
Macomb	4,121	2,654	1,272	513	-36%	-52%	-60%
Monroe	924	586	351	118	-37%	-40%	-66%
Oakland	4,485	2,313	1,109	760	-48%	-52%	-31%
St. Clair	705	449	186	147	-36%	-59%	-21%
Washtenaw	1,732	689	519	281	-60%	-25%	-46%
Wayne	4,906	2,830	1,429	1,064	-42%	-50%	-26%
Detroit	1,053	739	653	562	-30%	-12%	-14%
Out-Wayne	3,853	2,091	776	502	-46%	-63%	-35%
<b>SEMCOG Region</b>	<b>18,400</b>	<b>10,158</b>	<b>5,235</b>	<b>3,074</b>	<b>-45%</b>	<b>-48%</b>	<b>-41%</b>

Table 3

**Top 10 Communities Based on Total New Units Authorized**

2006		2007		2008	
Detroit	739	Detroit	653	Detroit	562
Macomb Twp	649	Macomb Twp	419	Novi	204
Warren	433	Shelby Twp	253	Macomb Twp	125
Shelby Twp	393	Novi	173	Shelby Twp	120
Brownstown Twp	306	Washington Twp	115	Lyon Twp	99
Lyon Twp	270	Lyon Twp	114	Washington Twp	94
Novi	247	Ann Arbor	113	Canton Twp	75
Northville Twp	226	Clinton Twp	104	Northville Twp	63
Canton Twp	222	Northville Twp	96	Kimball Twp	63
Sterling Heights	218	Superior Twp	92	Troy	61
<b>Total</b>	<b>3,703</b>	<b>Total</b>	<b>2,132</b>	<b>Total</b>	<b>1,466</b>

Table 4

**Top 10 Communities Based on New Units Authorized in Two-Family, TAC, and Multi-Family Structures**

2006		2007		2008	
Warren	348	Detroit	523	Detroit	480
Shelby Twp	305	Shelby Twp	199	Novi	120
Detroit	278	Ann Arbor	103	Shelby Twp	78
Sterling Heights	159	Clinton Twp	60	Kimball Twp	55
Milford Twp	134	Macomb Twp	47	Washington Twp	45
Macomb Twp	130	Novi	42	Clinton Twp	29
Lyon Twp	124	Oceola Twp	40	Birmingham	28
Clinton Twp	120	Southfield	40	Melvindale	24
Canton Twp	119	Brighton	40	Brighton	24
Harrison Twp	112	Taylor	40	Grosse Pointe Park	23
<b>Total</b>	<b>1,829</b>	<b>Total</b>	<b>1,134</b>		<b>906</b>

# **RECYCLABLE PAPER**

6A

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Report on the Neighborhood Stabilization Program

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

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### Neighborhood Stabilization Program Implementation Matrix

# RECEIVED	# RECEIVED	INCOME ELIGIBLE	IN HB COUNSELING	APPRAISAL	INSPECTION	LOAN CLOSING	REHAB COMPLETE	PROJECT CLOSED
March	164	1	1	0	0	0	0	0
April	186	25	24	0	0	0	0	0

Comments	
Bids for appraisers, counseling, housing and lead inspectors received. Review criteria developed and review to start May 4.	
MOU w/MSUE drafted and under review by MSUE.	
Comment from March:	<div> <div>Total # Realtors = 58</div> <div>Macomb County Realtors = 56</div> </div> <div> <div>Total # Mortgage Brokers/Lenders = 49</div> <div>Total # County Brokers/Lenders = 45</div> </div>

6B

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorize the Board Chair to Sign and Submit the 2009 Annual Plan for the Urban County of Macomb, and the 2009-2013 Macomb HOME Consortium Consolidated Plan

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

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# PLANNING & ECONOMIC DEVELOPMENT

1 S. Main St., 7th Floor  
Mount Clemens, Michigan 48043  
586-469-5285 Fax 586-469-6787  
[www.macombcountymi.gov/planning](http://www.macombcountymi.gov/planning)

Stephen N. Cassin, AICP  
Executive Director

Donald Morandini  
Deputy Director

May 4, 2009

## MEMORANUM

**TO:** Ed Bruley, James L. Carbelli, Co-Chairs, and Members  
Planning and Economic Development Committee

**FROM:** Stephen N. Cassin, AICP  
Executive Director

**RE:** Macomb Urban County 2009 Annual Action Plan  
Macomb HOME Consortium 2009-2013 Consolidated Plan

## INTRODUCTION:

Attached for you review and consideration is an Executive Summary of the proposed Consolidated Plan, and the proposed 2009 CDBG and HOME activities. We seek (authorization 1) for the Board Chair to sign and submit both Plans to HUD. This will allow receipt of CDBG funding for the 21 communities in the Macomb Urban County; and HOME funding for the Macomb HOME Consortium (the Urban County, Roseville, Sterling Heights, and Clinton Township).

## BACKGROUND

The Macomb HOME Consortium must develop and submit for approval a 5 year Strategic (Consolidated) Plan detailing the income, housing, social and demographic conditions (and needs) of its jurisdiction. That data is then used to develop specific housing and community development objectives and activities, particularly as they related to low- and moderate-income persons. Submission of these documents is necessary for receipt of the HUD housing and community development funding.

HUD is offering CDBG funding to the Urban County, and HOME funding to the Macomb HOME Consortium for 2009, but has not yet provided the County's specific grant amounts for either program. We expect that it may change slightly from the funding identified in the attached documents. We should receive approval on July 1, 2009.

Attachments

## MACOMB COUNTY BOARD OF COMMISSIONERS

Paul Gielegem  
District 19  
Chairman

Kathy Tocco  
District 20  
Vice Chair

Joan Flynn  
District 6  
Sergeant-at-Arms

Andrey Duzyj - District 1	Sue Rocca - District 7	James L. Carabelli - District 12
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		Michael A. Boyle - District 24
		Kathy D. Vosburg - District 25
		Jeffery S. Sprys - District 26

Proposed 2008 Macomb Urban County Non-Profit Activities

Service Provider	Community	Allocation	CDBG Total	Other Funding	Accomplish-ments	Performance Ojectives & Outcomes
<b>Armada/Ray/Richmond Senior Program</b>						
	Armada	\$2,750.00				Suitable Liv Env
B9-21-3A	Armada Twp.	\$2,500.00				
	Ray Twp.	\$7,000.00				Avail/Access
	Richmond Twp.	\$4,700.00				
	Total		\$16,950.00	\$27,291.35	90 people	
<b>CARE</b>						
	Bruce Twp.	\$400.00				Suitable Liv Env
	Chesterfield Twp.	\$750.00				
	Eastpointe	\$1,000.00				
	Lenox Twp.	\$200.00				
	Romeo	\$400.00				
	Utica	\$250.00				
B9-21-3B	Washington	\$400.00				Avail/Access
	Total		\$3,400.00	\$177,997.00	67 people	
<b>Care House</b>						
	Chesterfield Twp.	\$1,000.00				
	Eastpointe	\$2,160.00				Suitable Liv Env
	Lenox	\$250.00				
B9-21-3C	New Haven	\$500.00				
	Romeo	\$500.00				
	Shelby	\$2,500.00				Avail/Access
	Utica	\$500.00				
	Washington	\$500.00				
	Total		\$7,910.00	\$588,000.00	40 people	
<b>Community Housing Network</b>						
	Bruce Twp.	\$500.00				Suitable Liv Env
B9-21-3D	Eastpointe	\$1,000.00				
	Romeo	\$2,000.00				
	Washington Twp.	\$2,000.00				Avail/Access
	Total		\$5,500.00	\$53,000.00	25 people	
<b>MATTS - Salvation Army</b>						
	Eastpointe	\$1,000.00				Decent Housing
	Lenox Twp.	\$1,000.00				
B9-21-3E	Romeo	\$2,000.00				
	Total		\$4,000.00	\$362,997.00	950 people	Avail/Access
<b>MCCSA - CHORE Pr</b>						
	Center Line	\$7,500.00				
	Chesterfield Twp.	\$1,000.00				Decent Housing
	Eastpointe	\$5,000.00				
B9-21-3F	Harrison Twp.	\$2,500.00				Sustainability
	Lenox Twp.	\$1,300.00				
	Macomb Twp.	\$4,877.50				
	Mt. Clemens	\$7,500.00				
	New Haven	\$1,500.00				
	Ray Twp.	\$3,000.00				
	Shelby	\$2,500.00				
	County	\$19,322.50				
	Total		\$56,000.00	\$150,818.00	152 people	
<b>MCREST</b>						
	Armada	\$600.00				
	Armada Twp.	\$500.00				Decent Housing
	Bruce Twp.	\$7,500.00				
B9-21-3G	Chesterfield Twp.	\$1,000.00				Avail/Access
	Eastpointe	\$2,000.00				
	Lenox Twp.	\$1,000.00				
	Richmond Twp.	\$250.00				
	Romeo	\$2,500.00				
	Shelby Twp.	\$2,500.00				
	Utica	\$450.00				
	Washington Twp.	\$6,500.00				
	Total		\$24,800.00	\$499,281.00	465 people	
<b>Macomb Warming Center</b>						
	Chesterfield Twp.	\$1,000.00				Decent Housing
B9-21-3H	Eastpointe	\$2,000.00				
	Utica	\$250.00				
	Total		\$3,000.00	\$178,860.00	1,350 people	Avail/Access
<b>RBW CHORE</b>						
B9-21-3H	Bruce Twp.	\$5,000.00				
	Romeo	\$5,000.00				
	Washington Twp.	\$5,000.00				
	Total		\$15,000.00			
<b>R/LEMS Sr. Transport'n</b>						
	Armada	\$1,000.00				Suitable Liv Env
B9-21-3J						
	Total		\$1,000.00	\$219,000.00	10,000 people	Avail/Access
<b>Samaritan House</b>						
	Armada	\$600.00				
	Bruce	\$10,000.00				Suitable Liv Env

Proposed 2008 Macomb Urban County Non-Profit Activities

	New Haven	\$500.00				
	Ray Twp	\$3,000.00				
B9-21-3K	Romeo	\$5,000.00				
	Shelby	\$2,500.00				Sustainability
	Washington Townsh	\$9,000.00				
	Total		\$30,600.00	\$61,000.00	6,218 people	
<b>St. Vincent de Paul - B9-21-3L</b>						
St. Mary Queen of Cr	Chesterfield Twp.	\$2,000.00				Suitable Liv Env
	Eastpointe	\$4,000.00				
St. Isidore	Macomb Twp.	\$4,880.00				Sustainability
	Total		\$10,880.00	\$78,416.83	77 people	
Turning Point	Bruce Twp.	\$1,000.00				
B9-21-3M	Eastpointe	\$2,000.00				Decent Housing
	Lenox Twp.	\$400.00				
	New Haven	\$500.00				
	Shelby	\$1,500.00				
	Washington	\$3,000.00				
	Total		\$8,400.00	\$573,964.00	500 people	
<b>GRAND TOTAL County Services</b>			<b>\$187,440.00</b>	<b>\$2,970,625.18</b>		
<b>2008 Public Facilities</b>						
R/LEMS Station #3						
B9-21-2A	Lenox Twp.	\$20,000.00		\$5,747.00		Suitable Liv Env
MYR Repayment (20	New Haven	\$2,500.00				
	Ray Twp	\$11,000.00				
	Richmond	\$2,030.00				Avail/Access
	Richmond Twp.	\$24,050.00				
			\$59,580.00	\$545,747.00	1,200 people	
<b>Romeo District Library</b>						
	Bruce Twp.	\$6,234.00				Suitable Liv Env
B9-21-2B	Romeo	\$6,233.00		\$14,000.00		
	Washington Twp.	\$6,233.00				Sustainability
			\$18,700.00	\$29,559.00	1 facility	
<b>GRAND TOTAL Facilities</b>			<b>\$78,280.00</b>	<b>\$589,306.00</b>		
<b>Non-Profit Planning and Administrative Activities</b>						
			CDBG Total	Other		Suitable Liv Env
						Avail/Access
<b>Macomb Continuum of Care</b>						
	Eastpointe	\$1,200.00				Decent Housing
B8-21-7A	Romeo	\$1,190.00				
	Washington Twp	\$1,190.00				Avail/Access
	County	\$21,420.00				
	Sub-Total		\$25,000.00	\$58,325.00	1 Strategy	
<b>Grand Total Non-Profit Planning/Admin</b>			<b>\$25,000.00</b>	<b>\$58,325.00</b>		
<b>Grand Total of all Non-Profit Other Funds</b>				<b>\$3,787,209.00</b>		

Note: All service activities qualify pursuant to Section 570.201 (e) and benefit LMI persons pursuant to 570.208 (a) (2).

Note: All planning & administrative activities eligible pursuant to 570.205 and 570.206w/presumed to benefit LMI persons.



# DRAFT: 3-5 Year Strategic Plan

This document includes Narrative Responses to specific questions that grantees of the Community Development Block Grant, HOME Investment Partnership, Housing Opportunities for People with AIDS and Emergency Shelter Grants Programs must respond to in order to be compliant with the Consolidated Planning Regulations.

## GENERAL

### Executive Summary

The Executive Summary is required. Include the objectives and outcomes identified in the plan and an evaluation of past performance.

#### 3-5 Year Strategic Plan Executive Summary:

The Macomb HOME Consortium, comprised of the Urban County of Macomb, the Charter Township of Clinton, and the Cities of Roseville and Sterling Heights (see attached map) has prepared this Consolidated Plan (Plan), in order to qualify for CDBG, HOME, and other formula program funding administered by the U.S. Department of Housing & Urban Development (HUD). This Con Plan is effective from July 1, 2009 through June 30, 2014. The major findings contained in this Plan follow:

- 1) Macomb County is a good place to live, work and play, and continues to grow, albeit more slowly, due to a long and severe downturn in the regional economy. This has severely challenged the County's base economy (including housing and durable manufacturing) is at risk. Businesses have closed or moved away, and thousands of jobs have been lost or are threatened. Tax revenues are declining, despite increased demand for services. Our quality of life is threatened.
- 2) The County's housing market is beset with foreclosures in virtually every community and neighborhood, threatening their viability. Large numbers of available vacant homes can be found in each community, and there is little, if any, need for new single-family homes. The cherished dream of homeownership may be eroding, and the County's housing could, without a strong economic resurgence, become less owner-oriented and more rental in nature.
- 3) Worker lay-offs have led to increased unemployment claims and the exhaustion of benefits for those unemployed for a long time. Another result is burgeoning numbers of newly homeless families and families at risk of homelessness. This is unprecedented and must be addressed.
- 4) Despite a perceived increase in the number of "renter" households, they are still outnumbered by low-income (LI) homeowners. The proportion of LI families who rent exceeds that for LI owners. Homeowner (particularly homebuyer) and renter assistance programs are necessary.
- 5) Investors, possibly due to the large number of vacant available, foreclosures, have begun to purchase single-family homes, either to re-sell them for profit, or to rent them. It is probable that there are adequate numbers of rental units for the near future. There is no need for new housing in Macomb County at this time.
- 6) There is a demand for public facilities and infrastructure improvement throughout the communities that comprise the Macomb HOME Consortium.
- 7) There is a need for emergency services to help at-risk populations keep their homes, and for human services to help LI people cope with daily life.

The Macomb HOME Consortium has undertaken housing and community development programs for decades. It has repaired homes, promoted transitional housing, helped developmentally-disabled adults find adequate housing and achieve independence, constructed, improved and or expanded public facilities including parks and senior centers, constructed or improved streets, sidewalks and water and sewer facilities, and provided human services to address LI needs. This Plan continues, and will expand, these accomplishments.



- 2) Housing Choice Vouchers and tenant-based rental assistance to prevent homelessness,
- 3) development of new, or rehabilitation of substandard existing, rental units.

**Priority Objective #3 – Public Facilities and Infrastructure**

Community and stakeholder feedback indicate a need for public works and improvements throughout the County. A diverse community demands that public facilities and infrastructure be maintained and installed as appropriate to meet existing and increased demands. This Plan will focus on maintaining and improving existing, and create new, public facilities and improvements that primarily serve LI people, or which are located in blighted neighborhoods. **The second priority is therefore to maintain and improve existing, and create new public facilities and infrastructure in LI and/or blighted areas.**

**Priority Objective #4 – Homeless and At-Risk Needs**

Unfortunately homelessness is increasing in Macomb County. There were 1176 homeless persons in the County, including 125 families, 165 children, and 353 chronically homeless people in the County, according to the 2009 Point-in-Time survey conducted by the MHC. This figure excludes those who are: sporadically homeless, temporarily housed, who were illegally squatting in foreclosed properties, or who have special needs. This results not only in an undercount, but also in the provision of inadequate support systems. **Programs to assist the homeless, and prevent homelessness among at-risk populations, including those with special needs, are therefore the Consortium's third priority.** Those with special needs are also a focus of this objective, which overlaps with Objective #1).

**Priority Objective #5 – Provide and Expand Human Service Needs**

Community and stakeholder feedback also indicate a strong need for improved human services, particularly as they relate to individuals and families made homeless, or who risk homelessness due to job loss or underemployment. Those affected spend inordinate amounts of time seeking essential services only to find them not offered or inaccessible. Municipal resources are overextended, despite the compelling need to serve these people. **The Consortium has therefore made providing and expanding human services to LI people, particularly those with special needs and those at risk of homelessness, this Plan's fourth priority.**

**Priority Objective #6 – Expand Comprehensive Planning & Management & Capacity Development**

There is a need to develop the capacity required to effectively anticipate and address a rapidly changing economic, social and demographic environment in the County. Similarly, it is critical that new and effective tools be developed to ensure an effective way of delivering municipal service to County residents. This is an essential investment in our future. **The Consortium has therefore made the provision of comprehensive planning and management and capacity development its fifth priority.**

**Priority Objective #7 – Encourage Business Retention & Attraction**

Changes to the global economy, and global instability have devastated our economy. As a result, many families are unemployed or face unemployment. The County's Board of Commissioners acknowledged these hardships and directed MCPED to **Encourage Business Retention and Attraction in Macomb County to provide jobs to all residents, particularly those from lower-income households.**

- The County monitors fund use to ensure timeliness, and monitor compliance with HOME requirements including continuing affordability, affirmative marketing, procurement, and Labor standards, and shares the results with members.
  - Each partner implements projects using its staff resources, using local procedures. The County uses documentation, e.g. labor certifications, invoices and the like, to monitor individual projects for compliance. Each community corrects emergent problems, and the County provides technical assistance, as necessary.
  - The County monitors (and provides technical assistance for) CHDO activities as prescribed by regulation but also based on an assessment of risk. It will monitor more frequently, if needed.
- b. Each member: is responsible for monitoring CDBG program implementation in its entirety.

## **Priority Needs Analysis and Strategies (91.215 (a))**

1. Describe the basis for assigning the priority given to each category of priority needs.
2. Identify any obstacles to meeting underserved needs.

### **3-5 Year Strategic Plan Priority Needs Analysis and Strategies response:**

Based on the advice and comments received from residents and stakeholder organizations, as using general knowledge of conditions and needs in the community, the Consortium established the following overarching housing and community development priorities. Please refer to the preceding narrative in "Managing the Process" for detail. The Consortium and its individual members expect to address each of these priorities during the life of this Plan.

#### **Priority Objective #1 – Address the Foreclosure Crisis**

There were more than 11,000 foreclosures between 2005 and 2008 in Macomb County; this was substantially higher than the exceedingly high national average for the same period. This has had catastrophic consequences for families affected, for their neighbors, for the lending community, and for municipalities. Home vacancies threaten community viability. This challenge cannot go unmet. Addressing foreclosures is therefore our #1 priority.

#### **Priority Objective #2 – Housing**

The maintenance and preservation of housing for all residents but particularly affordable housing for LI owners and renters is the top priority of this Plan. Buffeted by hammer blows due to economic restructuring and a global financial crisis, many formerly self-sufficient families have lost, or are in danger of losing, their homes. These newly homeless, and at-risk of homelessness, families require assistance to maintain their dignity and preserve what has become a tenuous grip in the economic mainstream.

Other families face economic uncertainty due to stagnant or declining incomes resulting from work-related cutbacks or underemployment, losses of health and other benefits. These families, too, are at risk.

**Housing is, consequently, the second priority (and closely related to Priority #1) for the Macomb HOME Consortium and its individual members.** Over the life of this Plan, the Consortium and its members will implement programs to assist existing homeowners, those aspiring to be homeowners, and renters seeking to afford decent rental housing. Home maintenance and chore services, acquisition and repair, and new construction on a limited scale will also be offered.

The MHC, and its members, may assist homeowners, and those who want to become homeowners, with:

- 1) housing repairs,
- 2) home maintenance and chore services,
- 3) limited new construction, and
- 4) down-payment assistance.

Rental assistance may include:

- 1) acquisition and (if necessary), repair, and

60

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Authorize the Execution of Grant Agreements of \$67,524 in CHDO Operations Funding for Solid Ground, and \$446,799 for Springhill Housing Corporation

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED 5/13/09 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## PLANNING & ECONOMIC DEVELOPMENT

1 S. Main St., 7th Floor  
Mount Clemens, Michigan 48043  
586-469-5285 Fax 586-469-6787  
[www.macombcountymi.gov/planning](http://www.macombcountymi.gov/planning)

Stephen N. Cassin, AICP  
Executive Director

Donald Morandini  
Deputy Director

May 4, 2009

### MEMORANUM

**TO:** Ed Bruley, James L. Carabelli, Co-Chairs and Members  
Planning and Economic Development Committee

**FROM:** Stephen N. Cassin, AICP  
Executive Director

**RE:** 2007 HOME Funding

### BACKGROUND

The Macomb HOME Consortium has \$464,920 in uncommitted 2007 HOME funds at risk of recapture if not under contract by June 30, 2009. The Consortium has identified worthwhile projects with two non-profit housing providers, Solid Ground and Springhill Housing Corporation, to promote housing opportunities for lower-income residents within its jurisdiction.

We have delayed recommending Board consideration of both projects due to our need to ensure an appropriate level of HOME Match (Springhill Housing Corporation) and administrative capacity (Solid Ground). These concerns are resolved and we can recommend Board approval for both. Both projects will undergo review by the Clinton Township, Roseville and Sterling Heights legislative bodies, since they will be the contributing entities. The County's investment for the Springhill project (\$49,716) represents carryover funding from 2006, which has already received Board approval.

**Concern #1 Match Requirement:** We now have sufficient Match to meet Federal requirements for the Springhill Housing Corporation project. Match is not required for the Solid Ground award. Both organizations will provide Match in the future to help the Consortium undertake additional housing projects.

**Management Capacity:** Solid Ground now has adequate administrative capacity for its transitional housing facility, having hired a permanent full time Executive Director, Development Officer, and essential staff, supplemented by volunteers. The facility is open and houses homeless families.

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		Kathy D. Vosburg - District 25
		Jeffery S. Sprys - District 26

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorize the Submittal to HUD of a Substantial Amendment to the 2008 CDBG Program for \$687,807 in Homeless Prevention Funding

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

\_\_\_\_\_

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1 S. Main St., 7th Floor  
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586-469-5285 Fax 586-469-6787  
[www.macombcountymi.gov/planning](http://www.macombcountymi.gov/planning)

Stephen N. Cassin, AICP  
Executive Director

Donald Morandini  
Deputy Director

May 4, 2009

### MEMORANUM

**TO:** Ed Bruley, James L. Carabelli, Co-Chairs and Members  
Planning and Economic Development Committee

**FROM:** Stephen N. Cassin, AICP  
Executive Director

**RE:** Macomb Urban County 2008 CDBG Substantial Amendment  
(NSP and HPRP)

### INTRODUCTION

Attached for your review and consideration is a listing of 2008 HPRP activities to be undertaken with new funding from the Federal government.

### BACKGROUND

Congress recently authorized several new programs, and increased previous allocations for others as a part of recently enacted foreclosure and Stimulus legislation. The County's CDBG program was affected in two ways: First, it received \$9.8m in Neighborhood Stabilization Program (NSP) funding. Second, it will receive \$687,708 in Homeless Prevention and Rapid Re-Housing Program (HPRP) funding. Both programs are considered "Substantial Amendments" to the County's 2008 CDBG program application.

**NSP:** Attached is a matrix detailing the County's implementation progress. The County is reviewing bids from private vendors for housing counseling, appraisal, home inspection and lead inspection services necessary for effective and compliant implementation. That review starts today and should be concluded within two weeks. The County will be ready to promptly offer contracts to the selected vendors in order to meet tight performance requirements. Corporation Counsel will prepare the contracts.

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Ed Bruley, James L. Carabelli, Co-Chairs and Members  
Planning and Economic Development Committee  
May 4, 2009  
Page Two

**HPRP:** This program will provide housing and services for those made homeless, or who are at risk of becoming homeless, due to the economic downturn. Macomb County must apply for this funding no later than May 18 if it is to receive that funding.

HPRP is an entirely new program and we recommend that it be used to provide housing (rental) assistance, plus supportive services, for those who cannot rent decent, safe and sanitary housing, for periods of up to 18 months. This would provide a modicum of security to families hard-hit by job loss and help them rebuild for the future.

This program would be implemented by DPED and the County's Continuum of Care Coordinator, with specific housing providers selected through an RFP process. This is an efficient and effective method to administer what is expected to be a one-time grant.

Attachments

# **RECYCLABLE PAPER**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Report on the Economic Development Retention Visit to TACOM/TARDEC

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09  
\_\_\_\_\_  
\_\_\_\_\_



## ITINERARY FOR THE VISIT OF Macomb County Board of Commissioners



a/o 1120, 17 April 09

### VISITORS

1. Chairman Paul Gielegthem, Macomb County Board of Commissioners
2. Commissioner Ed Bruley, Macomb County BOC
3. Commissioner Don Brown, Macomb County BOC
4. Commissioner Jeffery Sprys, Macomb County BOC
5. Commissioner Toni Mocer, Macomb County BOC
6. Commissioner Dave Flynn, Macomb County BOC
7. Commissioner Rob Mijac, Macomb County BOC
8. Commissioner Ed Szczepanski, Macomb County BOC
9. Commissioner Joan Flynn, Macomb County BOC
10. Commissioner Andrey Duzyj, Macomb County BOC
11. Tomiko Gumbleton, Regional Mgr for U.S. Senator Debbie Stabenow
12. Vicki Selva, Regional Rep for U.S. Senator Carl Levin
13. Judy Hartwell, Office of Congressman Sander Levin
14. Melanie Brown, Offices of Lt. Governor Cherry and Governor Granholm
15. Lesia Liss, State of Michigan, Representative 28th District
16. Kim Meltzer, State of Michigan, Representative 33rd District
17. Jon Switalski, State of Michigan, Representative 25th District
18. Jennifer Haase, State of Michigan, Representative 32nd District
19. Steve Cassin, Director, Macomb County Planning & Economic Dev. Dept.
20. Patti Dib, Macomb County Board of Commissioners
21. Mayor Jim Fouts, City of Warren
22. Richard Sabaugh, Warren Public Service Director
23. Bruce MacDonald, Mich. CASA
24. Amanda Dimic, Office of Macomb Co. Commissioner Rob Mijac

### PROJECT OFFICER

Mr. Don Jarosz  
Public Affairs Office  
Tele: (586) 574-8820  
Cell: (734) 945-3009

### ESCORT OFFICER

N/A

### PROTOCOL OFFICER

Mr. Scott Oestringer  
Tele: (586) 574-5897  
Cell: (586) 216-3916

**Friday, 17 April 09**

### TIME

### ACTIVITY

### CONTACT

1215-1230

Arrive TACOM LCMC  
Building 230 (Gate #11)

Protocol

1230-1300

Walk to Conference Room 252W1

Protocol

**Friday, 17 April 09**

<b><u>TIME</u></b>	<b><u>ACTIVITY</u></b>	<b><u>CONTACT</u></b>
1300	Welcome	Protocol
1300-1330	TACOM LCMC Overview (briefed by MG West)	Mr. Ron Coleman
1330-1345	BRAC Briefing	Ms. Donna Westby
1345-1400	Detroit Arsenal Garrison Briefing	Ms. Brenda McCullough
1400-1410	Break / Travel to Building 200A Lobby	Protocol
1410-1415	Enroute to TARDEC U Conf Room	Mr. Keith Appling
1415-1445	TARDEC Overview	<u>Mr. Thom Mathes</u>
1445-1450	Enroute to Prototyping Integration Facility (PIF)	Mr. Keith Appling
1450-1515	PIF/Vehicle Overview	Mr. Jon Aboona
1515-1525	Enroute to Bldg 212 (Ground Vehicle Power and Mobility)	
1525-1600	Capabilities Overview Test Cell Overview Battery Testing	Mr. Chuck Coutteau Mr. Mike Reid Ms. Sonya Gargies
	Depart TACOM LCMC	Protocol

# **RECYCLABLE PAPER**



RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

## MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Report on the Hanover, Germany (Wind Energy) FairINTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_  
PED 5/13/09

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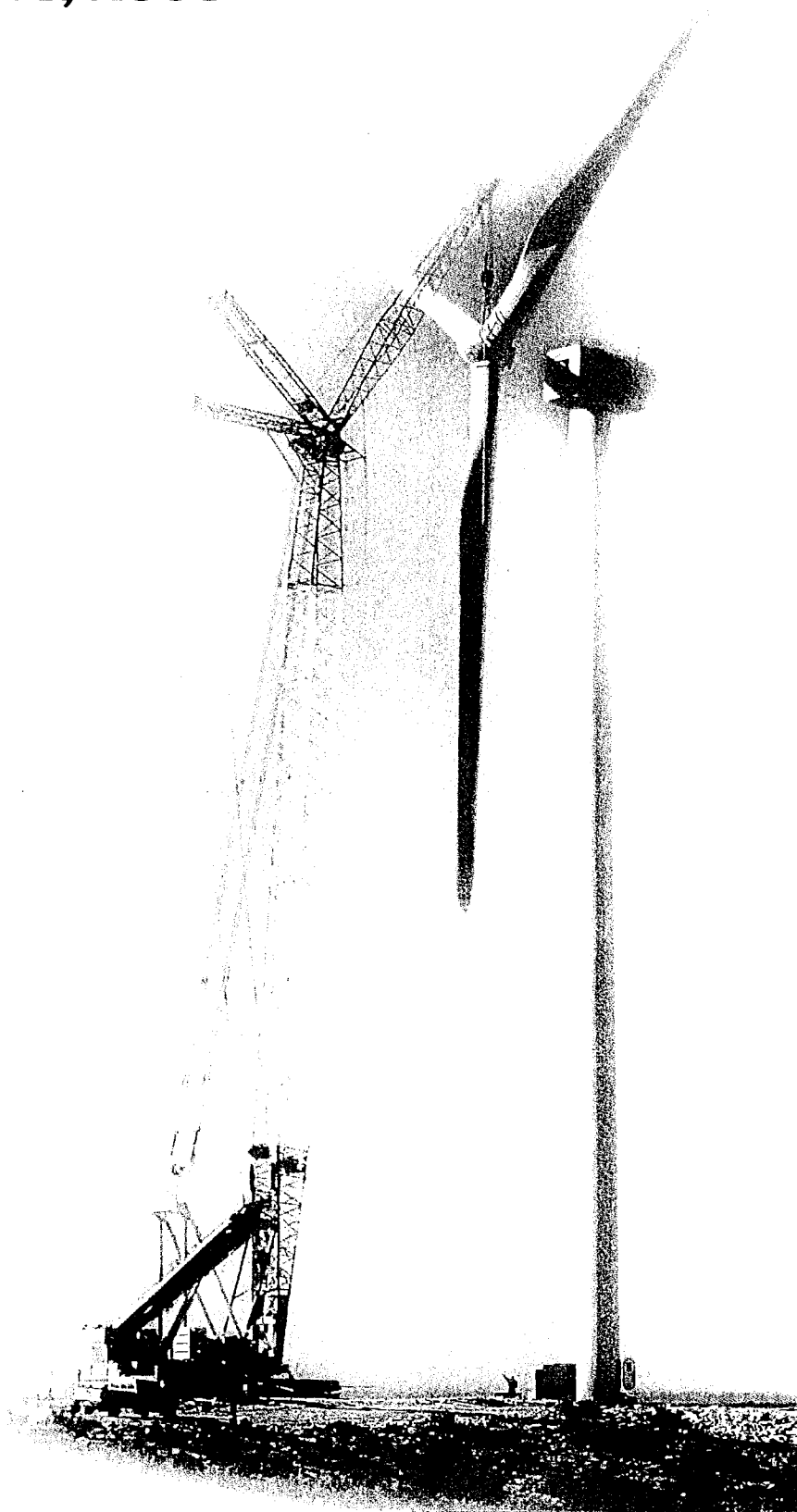
**Hannover Messe:**

**April 19 – 24, 2009**

**Wind Power &  
Energy  
Efficiency**

**Global  
Exposition**

**Report to PED-  
May 13, 2009**



**Keith W. Cooley**

President & Chief Executive Officer

461 Burroughs  
Detroit, MI 48202  
phone: 313.833.0100 ext. 170  
cell: 313.820.8504  
e-mail: keithc@nextenergy.org  
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## WHO WE ARE

Launched in 2002, *NextEnergy* is already one of the nation's leading research catalysts and business accelerators for alternative and renewable energy. Our leadership team offers more than a hundred years of experience working with utilities, alternative fuels, hybrid power trains, business development, venture capital investment and more in the alternative energy industry.

Located in Detroit, we are within an hour of more than a dozen major research universities, and in the heartland of America's transportation, technology, and manufacturing industries. Fostering dynamic research and innovation, we combine this intellectual capital with Michigan's legendary manufacturing prowess and entrepreneurial ingenuity to help generate new technologies, viable businesses, solid growth, and industry leadership.

## WHAT WE DO

Launched in 2002, *NextEnergy* is a 501(c)(3) nonprofit organization with a mission to become one of the nation's leading catalysts for alternative and renewable energy. By bringing promising technologies to maturity and up to scale in the marketplace, we accelerate the impact and profitability of this increasingly important industry.

Already we are managing millions of dollars of research projects. Already we are developing new technologies for power-generation, transportation and fuels. Already we are launching them into your world.

Never has the opportunity been better for alternative and renewable energy to succeed. Never have consumers, industry and government been more open to them. Never have the economics and the marketplace been a stronger force to advance them.

Whoever you are in the alternative energy field, we have the keys to advance your project or to connect you to the resources you need to help you succeed.



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fax > 586.776.5007  
tkilgus@aimindustrial.com  
www.aimindustrial.com

**The AIM Industrial Group** is a diversified provider of: Manufactured Goods; Distribution, Warehousing and Logistical Support; and Sales and Marketing Services.

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**The AIM Marketing Group** serves as the sales and marketing arm of our organization. It also serves a variety of independent manufacturers and distributors seeking outside Sales and Marketing support.

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Fax: 586.939.4886  
wind.energy@ces-mh.com  
www.ces-mh.com

**Jerry Vanneste**

### **Creative Ergonomic Systems, Inc. (CES)**

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fabrication, machining, and build done in-house, we can deliver custom products and prototype items in minimal time. We can provide your custom solution!



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9020 Klagenfurt / Austria  
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ph +43 (0) 463 444604-17  
fx +43 (0) 463 444604-44  
gsm +43 (0) 676 842040417  
[guntram.joham@ams-c-windtec.com](mailto:guntram.joham@ams-c-windtec.com)

Windtec is a subsidiary of American Superconductor Corporation (AMSC)

## **About AMSC Windtec, subsidiary of AMSC**

### **About AMSC Windtec GmbH — A history of innovation in wind energy development**

Following nearly 9 years of development and commissioning work, Windtec GmbH was founded in 1995 in Klagenfurt, Austria and became the leading independent engineering company involved in designing complete electrical systems for wind turbine applications. Their projects ranged from 600 kW land-based wind turbines to 8 MW and larger offshore wind turbines. In 2005, they began delivery of complete electrical systems to Japan, China and Germany. AMSC Windtec became a wholly owned subsidiary of American Superconductor in early 2007.

Windtec introduced the concept of "Build Your Own Wind Turbine" technology transfer for manufacturing of self-designed wind turbines by original equipment manufacturers. They provide complete customer-specific design and development of high quality wind energy systems and work side by side with their customers through the first reference turbine, assembly and certification process. Today, the Windtec technology transfer model is being adopted by Windtec customers on all major continents and Windtec continues to innovate new proprietary products to give their customers the market advantage in wind turbine technology.



**Christian Schnibbe**

Manager Marketing & Communications

c.schnibbe@wpd.de

T + 49 (0) 421 168 66 - 25

F + 49 (0) 421 168 66 - 66

M + 49 (0) 170 182 26 53

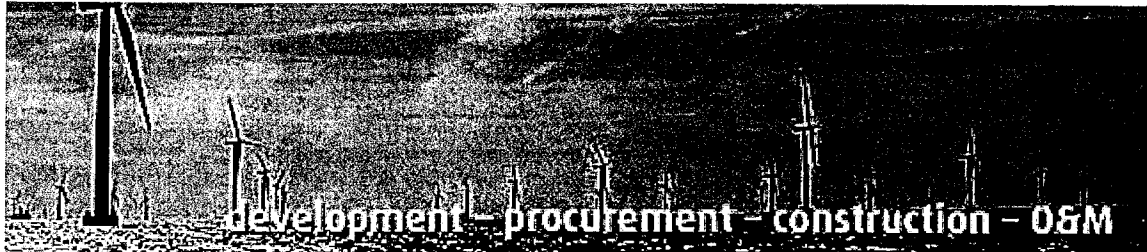
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The exploitation of ocean wind power ("**offshore wind power**") offers numerous advantages over projects on land and is regarded as key to reach the society's ambitious goals on renewable energies: Wind velocities are higher and more reliable at sea, and larger areas can be used for construction far enough out at sea so as not to mar the horizon.

On the other hand, offshore wind farm planning presents a major technical challenge: wind power facilities must be specially designed for use at sea; they must rest on foundations which are specially designed for the respective sea depths and tides, and they require that cables be laid over long distances under water.

wpd is acting regarding all stages of an offshore project: development, procurement, construction and operation & maintenance.

**Development** of offshore wind farms has been the starting point for wpd in the offshore business since 2000. Until today, wpd has reached permission of five offshore wind projects (more than 2,000 MWs) and is running a pipeline of 18 projects (together 9,000 MWs), making wpd to the leading offshore wind developer.



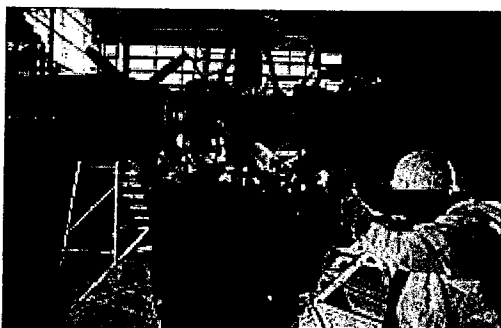
DR. KLAUS WERSCHING

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REGION GERMANY/CENTRAL EUROPE  
MARKETING

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Fax: +49 (0) 69/66 32-21 65  
Cell: +49 (0) 151/14 747 39

**AREVA T&D**  
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klaus.wersching@areva-td.com  
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Richard Cheung M.A.Sc B.A.Sc MBA  
Mechanical Engineer

AVANTIS is a group of enterprises focusing on renewable energies, with a strong emphasis on wind power. The group comprises companies from the US, Brazil, Europe, and Asia. AVANTIS has kept a low profile while concentrating on developing new technologies for the wind industry. After some years of research and planning, this stage has now been completed, and our first turbine, the AV 928, has seen the light of its first bright morning.

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AVANTIS serves the growing wind power industry with high quality, effective products and modern engineering. We have a goal: To make the most modern technology available to all regions of this planet, in order to generate cleaner and greener energies and contribute to the survival of this beautiful planet and all its inhabitants.

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## **Vestas**

Søren Lund Bjerregaard  
Electrical Engineer  
CIM Electrical & Software, Operations

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- [1.65 MW – V82-1.65 MW](#)
- [2.0 MW – V80-2.0 MW, V90-1.8/2.0 MW and V100-1.8 MW](#)
- [3.0 MW – V90-3.0 MW and V112-3.0 MW](#)

**Niels Hofmann**

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Mobil: 0172 260 44 20  
www.wind-service.eu

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Fax +49 5772 47-90779 · ingo.siebering@HARTING.com · www.HARTING.com

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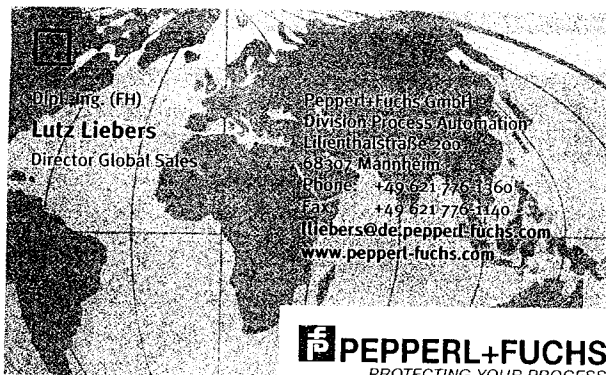
**Thilo Gemeinhardt**

Product Manager Industry

tel +49 89 67 35 92-336  
fax +49 89 67 35 92-169  
thilo.gemeinhardt@sfc.com

SFC Smart Fuel Cell AG  
Eugen-Sänger-Ring 4  
85649 Brunnthal

www.sfc.com



Dipl.-Ing. (FH)  
**Lutz Liebers**  
Director Global Sales

Pepperl+Fuchs GmbH  
Division Process Automation  
Lilienthalstraße 200  
68307 Mannheim  
Phone: +49 621 776 1360  
Fax: +49 621 776 1140  
lliebers@pepperl-fuchs.com  
www.pepperl-fuchs.com

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**F**  
**Fuhrländer**

**Benjamin Bhaumick**

Managing Director

Mobil: +49(0)173 - 9980164  
benjamin.bhaumick@fuhrlaender.de

Fuhrländer Aktiengesellschaft  
Auf der Höhe 4  
D-56477 Waigandshain  
Fon +49 (0)26 64. 99 66-0  
Fax +49 (0)26 64. 99 66-33

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**winergy**

Dipl.-Ing. **Holger Daum**

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Phone +49 (0) 2871 92-11 05 · Fax +49 (0) 2871 92-24 87  
Mobile +49 (0) 173 732 76 10  
holger.daum@winergy-ag.com

**Continental**  
**CONTITECH**

Vibration Control

**Thomas Knickelmann**  
Sales Industrial Division

Phone +49 511 976-6021  
Fax +49 511 976-6860  
Mobile +49 160 90442692  
thomas.knickelmann@vc.contitech.de  
www.schwingmetall.com

ContiTech  
Vibration Control GmbH  
Jädekamp 30  
30419 Hannover  
P.O. Box 21 04 69  
30404 Hannover  
Germany

**KAESER KOMPRESSOREN**  
96410 Coburg, P.O.Box 2143  
Phone +49 9561 640-0  
Fax +49 9561 640130  
produktinfo@kaeser.com  
www.kaeser.com

**KAESER**  
KOMPRESSOREN

**Erwin Ruppelt** Dipl.-Ing.

Manager  
Consulting engineers in compressed  
air technology  
Projektingenieure Druckluft-Technik

Mobile + 49 171 8637217  
Phone +49 9561 640217  
Fax +49 9561 6408339  
erwin.ruppelt@kaeser.com



## SIEMENS

Siemens AG  
Industry Sector  
Drive Technologies Division

Briefadresse:  
IDT LD  
Postfach 47 43  
90025 Nürnberg  
Deutschland

Hausadresse:  
Vogelweiherstr. 1-15  
90441 Nürnberg

Telefon +49 (911) 433-7730  
Fax +49 (911) 433-6989  
Mobil +49 (162) 2372895  
juergen.brandes@siemens.com

Dr.-Ing.  
**Juergen Brandes**  
Chief Executive Officer  
Large Drives

## Rudolf Sommer

Dipl.-Kfm. Univ.  
Leiter  
Konzern Veranstaltungen, Messen

## EnBW

EnBW Systeme Infrastruktur Support GmbH

Adolf Pirrung-Straße 7  
88400 Biberach  
Telefon 07351 18827-200  
Telefax 0721 63-193260  
Mobil 0171 9744729  
r.sommer@enbw.com  
www.enbw.com

## BECKHOFF

Dipl.-Phys.  
**Hans Beckhoff**  
Geschäftsführer

Beckhoff Automation GmbH  
Eiserstraße 5  
33415 Verl  
Germany  
www.beckhoff.de

Telefon: +49 (0) 5246 963-0  
Telefax: +49 (0) 5246 963-149

E-Mail: h.beckhoff@beckhoff.com

**Eberhard Klotz**  
Dipl.-Ing.  
MBA

## FESTO

Head of  
Marketing  
Products and Technology

**Festo AG & Co. KG**

TC-CP  
Ruiter Strasse 82  
73734 Esslingen  
Germany  
Phone +49 711 347-2964  
Mobile +49 711 347-95-2964  
Fax +49 711 347-54-2964  
ekz@de.festo.com

## Wolf-Günter Janko

Dipl.-Ing., Prokurist  
Leiter Marketing, Vertrieb & Accountmanagement  
Energietechnik (PMS)

ABB AG  
Kallstadter Straße 1  
68309 Mannheim  
Telefon +49(0)621 381-7099  
Telefax +49(0)621 381-5958  
Mobil +49(0)172 6210579  
E-Mail: wolf-guenter.janko@de.abb.com

## ABB

**Meinhard Schumacher**  
Dr.-Ing.

## SEW EURODRIVE

Sales Global  
Marketing & Engineering

Geared Motors and AC Drives  
Product Management  
MESP

SEW-EURODRIVE GmbH & Co KG  
P.O.Box 30 23  
D-76642 Bruchsal/Germany

Phone +49 7251 75-2417  
Fax +49 7251 75-502417  
Mobile +49 0172 7525838  
meinhard.schumacher@sew-eurodrive.de  
http://www.sew-eurodrive.de



**Christof Stork**  
Country Manager Italy  
Ph: +39 0542 21859  
Fax: +39 02 700430266  
Mobile: +39 348 6724771

christof.stork@garradhassan.com  
www.garradhassan.com



Garrad Hassan Italia srl  
Via Appia 2, 40026 Imola, Italy

P.I. 02825621200

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Report on Chicago Windpower 2009

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

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PED 8B  
S-13-09

# Highlights From Largest Wind Power Event In The World

Distributed

May 07, 2009 -- The U.S. wind energy industry today concluded in Chicago, Ill. the world's largest wind conference, which hosted over 1,200 exhibiting companies and 23,000 attendees

"The size and breadth of this show are a clear indicator that the wind energy industry is a hub of business activity even in this hesitant economy," said AWEA CEO Denise Bode. "What we heard loud and clear from the industry assembled here in Chicago was a call to enact a national Renewable Electricity Standard (RES) to secure a stable and growing market for renewable energy," said AWEA CEO Denise Bode. A poll released by AWEA at WINDPOWER showed that over 75% of Americans, including 71% of independents and 62% of Republicans, support an RES requiring that 25% of the nation's electricity be generated from renewable energy by 2025.

## **WINDPOWER 2009 Conference & Exhibition highlights include:**

- \* Exhibitors from 48 states, and representatives from all 50 states and from 70 countries were present at WINDPOWER, demonstrating the industry's national and international scope;
- \* The exhibition hall exceeded 290,400 square feet—more than the 2008 (168,700 square feet) and 2007 (92,500 square feet) WINDPOWER shows combined.
- \* WINDPOWER welcomed over 23,200 attendees, up from 13,000 in 2008; 1,300 in 2004 (which as also held in Chicago); and 1,000 in 2001.
- \* Five Governors (Governors Chet Culver of Iowa, Jim Doyle of Wisconsin, Jennifer Granholm of Michigan, Pat Quinn of Illinois, and Ted Strickland of Ohio) addressed the conference. The Governors of Kansas and Pennsylvania were also present. States and their offices of economic development are competing to attract wind turbine supply chain companies and create good jobs. At least 19 state or regional economic development offices were exhibiting at WINDPOWER .
- \* Secretary of the Interior Ken Salazar, Energy Secretary Steven Chu (via a taped speech) and Federal Energy Regulatory Commission Chairman Jon Wellinghoff also addressed the conference. Secretary Salazar pointed to new rules for offshore wind farms that open the way for the U.S. to become a leader in offshore wind power. Both noted the value of a national Renewable Electricity Standard in creating jobs, helping hold down costs for consumers, and diversifying the nation's electricity portfolio. "At no time in our history has the time for a new energy policy been so urgent. This is an opportunity that Americans cannot afford to miss," said Secretary Salazar.
- \* Siemens announced it will open a wind turbine nacelle manufacturing facility in Hutchinson, Kansas. Investment in manufacturing facilities in the U.S. has accelerated over the past two years, with over 55 wind turbine and wind turbine component manufacturing facilities announced, added or expanded in 24 states in 2008.
- \* T. Boone Pickens, who planted wind energy firmly in the public consciousness with his high profile campaign, again pointed to the need to get off foreign oil by using more renewables to produce electricity and more natural gas for transportation. He predicted Congress will eventually pass comprehensive legislation, including an RES, because the American people support it.
- \* The WINDPOWER 2010 Conference & Exhibition will take place May 23-26 in Dallas, Texas.

Source: American Wind Energy Association (AWEA)



## 2008: Another Record Year for Wind Energy Installations

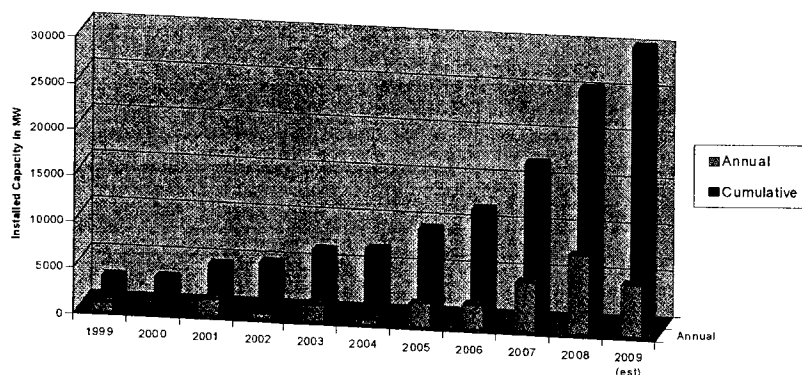
"Our numbers are both exciting and sobering," said AWEA CEO Denise Bode. "The U.S. wind energy industry's performance in 2008 confirms that wind is an economic and job creation dynamo, ready to deliver on the President's call to double renewable energy production in three years. At the same time, it is clear that the economic and financial downturn will take a toll on new wind development."

But we cannot rest on past achievements. We need the right policies in place for our industry to maintain its momentum. A national Renewable Electricity Standard, requiring utilities to generate 25 percent of their electricity from renewable energy sources by 2025, is vital to provide the long-term, U.S.-wide commitment businesses need to invest tens of billions of dollars in clean energy installations and manufacturing facilities, and create hundreds of thousands of American jobs."

The U.S. wind energy industry shattered all previous records in 2008 by installing over 8,500 megawatts (MW) of new generating capacity (enough to serve over 2 million homes), increasing the nation's total wind power generating capacity by 50% to over 25,300 MW and channeling an investment of some \$17 billion into the economy.

For the fourth year, wind power was second only to natural gas in terms of new capacity added. The new wind projects completed in 2008 account for about 42% of the entire new power-producing capacity added nationally last year, according to initial estimates, and will avoid nearly 44 million tons of carbon emissions, the equivalent of taking over 7 million cars off of the road.

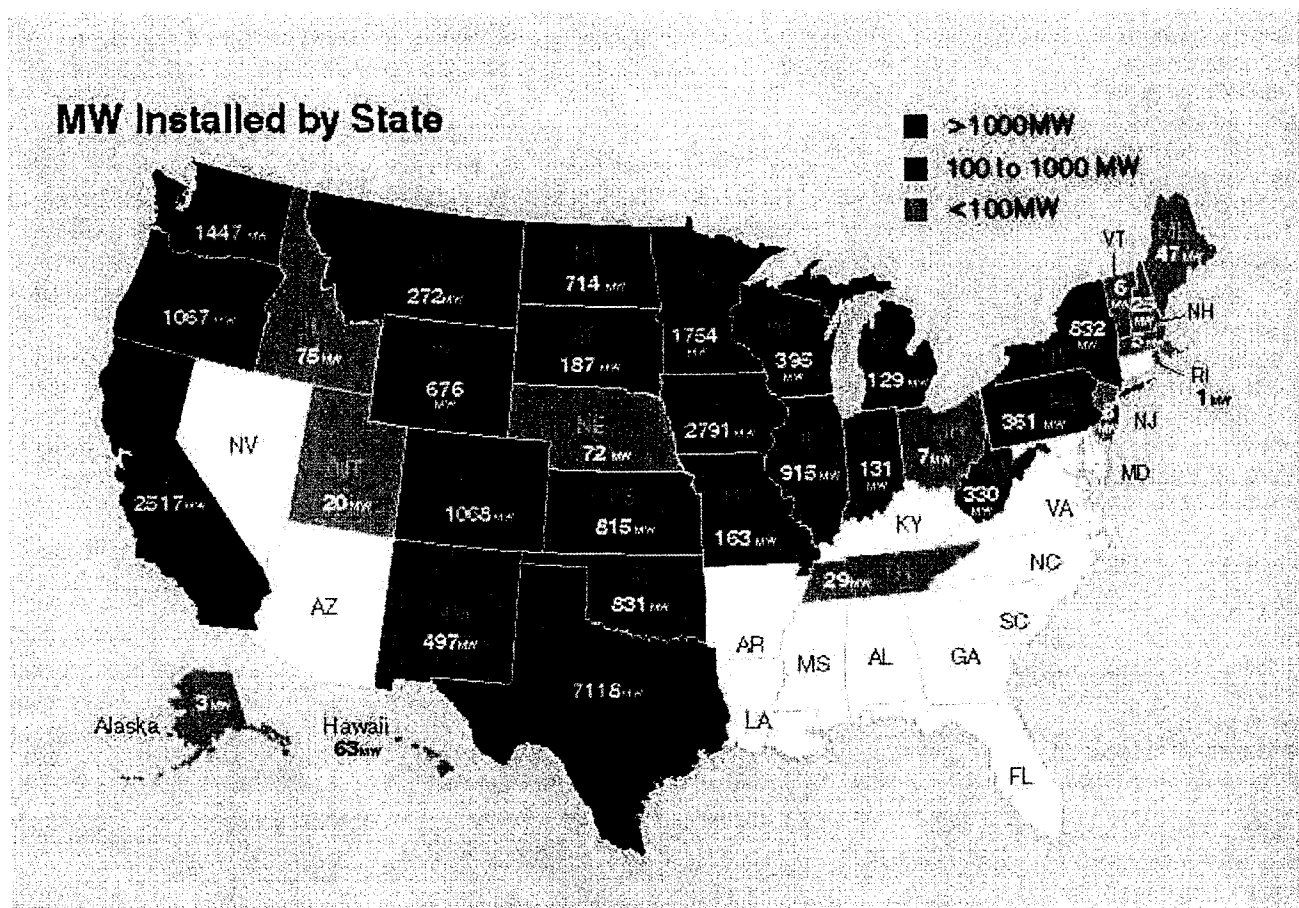
2009 will most likely be a slower year in terms of new installations than 2008 was, yet industry analysts are hopeful that new renewable energy incentives will quickly bear fruit. At least 5,000 MW of new wind installations are expected to be commissioned in 2009. The American Recovery and Reinvestment Act (ARRA) of 2009 includes a three-year extension of the renewable energy production tax credit (PTC) and a new program that allows renewable energy developers the option of forgoing the PTC and instead securing a grant from the Treasury department in the amount of a 30% investment tax credit (ITC). This program to help monetize renewable tax credits is considered critical for the wind industry to continue its growth in the face of the economic downturn, which has dramatically reduced the ability to secure value for renewable tax credits.



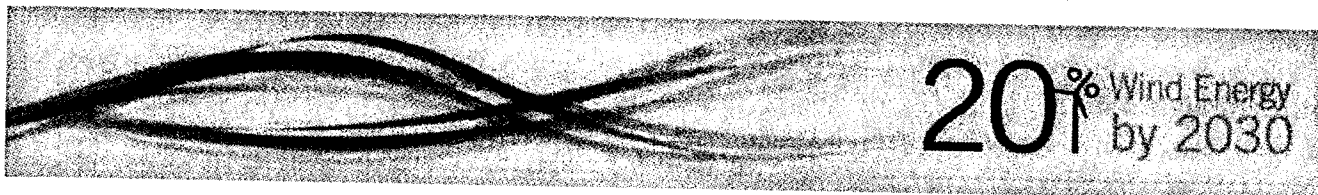


By the end of 2008, Texas had consolidated its lead in terms of installed wind power capacity and Iowa had surpassed California. The top five states in terms of capacity installed are now: Texas, with 7,118 MW; Iowa, with 2,791 MW; California, with 2,517 MW; Minnesota, with 1,754 MW; and Washington, with 1,447 MW. In addition to these five, Oregon and Colorado have more than 1,000 MW installed.

About 85,000 people are employed in the wind industry today, up from 50,000 a year ago. Wind power's recent growth has also accelerated job creation in manufacturing, where the share of domestically manufactured wind turbine components has grown from under 30% in 2005 to about 50% in 2008. Wind turbine and turbine component manufacturers announced, added or expanded 70 new facilities in the past two years, including over 55 in 2008 alone.



For a complete list of projects and manufacturing facilities added in the third quarter of 2008, please go to [www.awea.org/projects](http://www.awea.org/projects).



## **Achieving 20% Wind Energy by 2030: An Overview**

In May 2008, the U.S. Department of Energy released a comprehensive report, *20% Wind Energy By 2030: Increasing Wind Energy's Contribution to U.S. Electricity Supply*. It concluded that the U.S. possesses sufficient and affordable wind resources that would enable the nation to obtain 20% of its electricity from wind. No technological breakthroughs are required and the costs would be modest.

The benefits are far from modest. Achieving the 20% wind vision will cut greenhouse gas emissions, deliver near-term relief from rising energy prices along with long-term energy price stability, promote our energy security and create hundreds of thousands of new American jobs.

Wind power is already a mainstream option for new electricity generation. Wind power contributed more than a third of all new electric generating capacity in 2007, installing 5,249 megawatts (MW) of capacity and expanding the nation's total wind power generating capacity by 45% in a single calendar year. By April 2008, the U.S. had 18,300 MW of wind power, enough to supply 5 million homes.

To achieve a 20% wind power contribution, however, the U.S. will need to increase transmission, provide stable federal policies, and continue to expand manufacturing capability for wind turbines and their components.

### ***Benefits of Achieving the 20% Wind Energy by 2030 Vision***

- **Environment:**

- Reduces carbon dioxide emissions from the electric sector 25% by 2030, the equivalent of taking 140 million vehicles off the road and nearly single-handedly keeping electric sector emissions at today's levels, while helping meet growing electricity demand;
- Reduces water consumption in the electric sector by 4 trillion gallons or 17% in 2030, with nearly a third of this reduction occurring in the arid Western states;
- Does not contribute to acid rain, urban smog, mercury contamination or other toxic pollution associated with the extraction, transport, and combustion of fossil fuels.

- **Economy:**

- *Job creation:*
  - Directly stimulates 150,000 domestic jobs in wind turbine manufacturing, installation, operations, maintenance, and management;
  - Indirectly generates 350,000 domestic jobs in support of the wind industry, including steel workers, electrical manufacturing workers, accountants, lawyers, and additional positions related to increased local spending.
- *Rural economic development:*
  - Pays rural land owners more than \$600 million a year by 2030 through lease payments that range from \$2,000 to \$4,000 per megawatt annually;
  - Increases property tax revenue in rural communities by as much as \$1.5 billion annually by 2030. These funds can be allocated to schools, infrastructure, medical centers, and other public services.

- **U.S. Energy Security:**

- Generates electricity from a domestic, safe, and inexhaustible source;
- Reduces natural gas demand by 50% in the electric sector and 11% overall, relieving supply and price pressure in the domestic natural gas market and potentially reducing future need for imported liquefied natural gas from the Middle East, Russia, or other areas;
- Potentially reduces U.S. reliance on foreign oil by generating electricity that can be used for plug-in hybrid vehicles.

- **Affordable Cost**

- The 20% wind vision would require an initial investment of \$43 billion, 2% more than a circumstance in which no new wind energy is installed. Calculated over time, this expense amounts to about an additional 50 cents per month on an average household electricity bill.
- The value of fuel savings, economic investments, emission reductions, and other benefits far exceeds that incremental cost. Examples include:
  - \$128 billion consumer savings from displacement of variable-priced natural gas-fired generation with fixed-price wind power, according to supplemental analysis.<sup>1</sup>
  - \$98 billion in consumer savings through reduced exposure to carbon regulation costs, depending on the stringency and timing of future carbon regulation, according to supplemental analysis.<sup>2</sup>

### ***Challenges in Achieving the 20% Wind Energy by 2030 Vision***

- **Transmission**

- Stimulating major investment in U.S. transmission system, both in lines to access remote windy areas and in large multi-purpose interstate transmission highways to urban centers with high electricity consumption.

- **Electricity Grid Operations**

- Creating larger regional power pools and energy spot markets, so that regions can depend on a diversity of generation sources, including variable sources like wind power.

- **Siting**

- Addressing potential concerns in directly affected communities.
- Identifying and limiting potential impacts on wildlife and habitat.

- **Supply Chain**

- Expanding wind turbine manufacturing and installation capability to more than triple its current size, to over 16,000 MW installed per year, or over 75,000 new turbines by 2030.
- Expanding the services sector, including transportation and construction, significantly.
- Training an expanding workforce, including operations and maintenance workers.

- **Technology**

- Reducing wind capital cost and improving turbine performance and efficiency through technology advances and enhanced manufacturing capabilities.

### ***Meeting the Challenges to 20% Wind Energy by 2030***

Achieving the 20% vision will require policies that provide stability and predictability for investors in clean generation resources and promote construction of the transmission infrastructure needed to deliver renewable energy to urban areas. The American Wind Energy Association (AWEA) recommends a stable production tax credit incentive, a national renewable electricity standard, a major energy transmission effort, effective carbon regulation, a small wind investment tax credit incentive, fair and efficient siting regulations, and increased research and development funding.

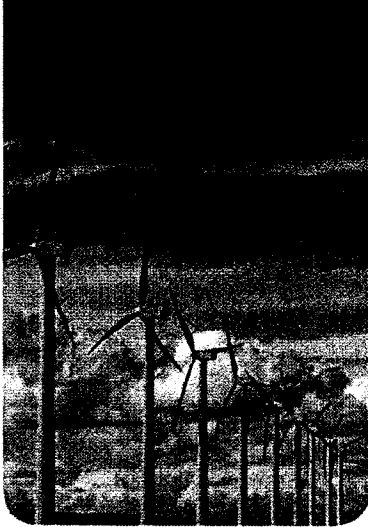
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<sup>1</sup> *Power System Modeling of 20% Wind-Generated Electricity by 2030*. National Renewable Energy Laboratory. June 2008; Number reflects mid-case secondary natural gas savings from 20% Wind (2006 dollars).

<sup>2</sup> *Ibid*; Number reflects mid-case carbon savings from 20% Wind (2006 dollars) and assumes a \$21.8/ton carbon cost.



# U.S. Wind Energy Installations Top 20,000 MW



The U.S. wind industry has raced past the 20,000-megawatt (MW) installed capacity milestone, achieving in two years what had previously taken more than two decades, the American Wind Energy Association (AWEA) said today. (The 10,000-MW mark was reached in 2006). The U.S. now has 21,017 MW of wind capacity installed, producing enough electricity to serve 5.7 million American homes or power a fleet of more than 1 million plug-in hybrid vehicles. "Wind energy installations are well ahead of the curve for contributing 20% of the U.S. electric power supply by 2030 as envisioned by the U.S. Department of Energy," said AWEA Executive Director Randall Swisher.

## Benefits of 20,000 MW of Wind Energy

The clean electricity generated by the 20,000 MW of wind power installed in the U.S. today can...

- Power 5.3 million U.S. homes, on average;
- Power a fleet of more than 1 million plug-in hybrid cars;
- Save 1.2 trillion gallons of water from being pulled from our nation's aquifers; and
- Power Greece, Denmark, or over 170 countries around the world.

20,000 MW of wind power installed in the U.S. today can generate as much electricity as . . .

- 28.7 million tons of coal, or two thousand mile-long coal trains,
- 90 million barrels of oil per year, and
- 530 Bcf of natural gas, or about 8.5% of the natural gas used for electricity generation.

The 20,000 MW fleet of wind power installed in the U.S. today can . . .

- Provide \$20 million - \$80 million in lease payments to American landowners; and
- Provide a valuable source of property tax income for local governments (especially rural counties).

If the power being generated by the 20,000 MW of wind power installed in the U.S. were being generated by the conventional U.S. generation mix . . .

- 34 million additional tons of carbon dioxide (CO<sub>2</sub>) would have been emitted, as much as could be absorbed by 18,400 square miles of forest, an area about the size of Vermont and New Hampshire together;
- 176,000 additional short tons of acid-rain causing sulfur dioxide (SO<sub>2</sub>) would have to be abated to achieve the national Acid Rain Program goals;
- 83,000 additional short tons of smog-causing nitrous oxide (NO<sub>x</sub>) would have been emitted; and
- 1,500 additional pounds of mercury would be polluting our streams and rivers.





## U.S. Wind Energy Installations Top 20,000 MW

*Continued*

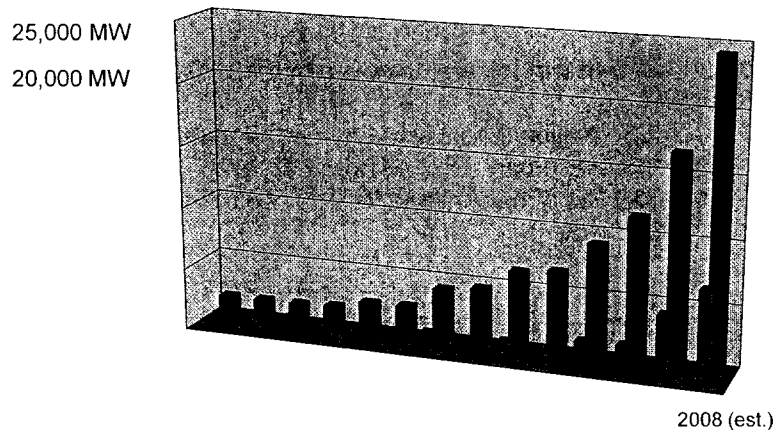
Although 20,000 MW is an important milestone, wind power provides a small share of the nation's electricity. The World Factbook reports that the U.S. consumes over 3.8 trillion kWh of electricity, which means that wind is providing just over 1.5 % of the nation's power. However, wind power is one of the fastest-growing electricity sources today, and can be expected to be an important source of our power needs in the future. The U.S. first started installing electricity-generating wind power in the early 1980s. The country had 1,000 MW of wind power installed by 1985; 2,000 MW installed by 1999; and 5,000 MW by 2003. Its first 10,000 MW was installed by mid-2006.

According to the "20% by 2030" Report released by the U.S. Department of Energy, wind power is capable of becoming a major contributor to America's electricity supply over the next three decades. As an inexhaustible domestic resource, wind strengthens our energy security, improves the quality of the air we breathe, slows climate change, and revitalizes rural communities.

The report finds that achieving a 20% wind contribution to U.S. electricity supply would:

- Reduce carbon dioxide emissions from electricity generation by 25% in 2030.
- Reduce natural gas use by 11%;
- Reduce water consumption associated with electricity generation by 4 trillion gallons by 2030;
- Increase annual revenues to local communities to more than \$1.5 billion by 2030; and
- Support roughly 500,000 jobs in the U.S., with an average of more than 150,000 workers directly employed by the wind industry.

For more information on the report, go to <http://www.20percentwind.org> .



### Assumptions:

- 32% average capacity factor assumed for entire turbine fleet.
- Average annual household consumption (U.S.) = 10,656 kWh.
- A plug-in hybrid car can travel 4 miles per kWh; one car is assumed to travel 12,000 miles.
- To generate the same amount of electricity as a single 1-MW wind turbine using either fossil fuels or nuclear power requires, on average, withdrawing roughly 60 million gallons of water a year from streams, rivers, or aquifers, of which nearly 1 million gallons is lost to evaporation; generating the same amount with hydropower means the loss of approximately 50 million gallons a year to evaporation.
- Due to national regulation on SO<sub>2</sub>, there is a cap on how much would have been emitted, but the costs for adhering to the cap would have been higher.
- Statistics on countries' use of electricity from the CIA's World Factbook
- Statistics on generation fuels and emissions from the Energy Information Agency's *Annual Energy Review*

## **NEW FACT SHEET HIGHLIGHTS NUMBER OF WIND TURBINES, FOOTPRINT NEEDED TO MEET PROPOSED RPS STANDARD**

East Lansing -- The Land Policy Institute (LPI) at Michigan State University released today a new fact sheet based on a recent study on wind energy and a Renewable Portfolio Standard (RPS) in Michigan. The study projects the number of wind turbines needed, the land footprint they would require, and the likely location of wind turbines in order to meet the requirements of the RPS, proposed by Governor Jennifer Granholm in the Michigan's 21st Century Electric Energy Plan. Both houses of the Michigan legislature are currently considering various bills related to RPS.

The study estimated that, with the passage of RPS in Michigan, wind energy development will produce:

- 1,100 construction jobs per year for the next two decades;
- 218 permanent jobs related to the management and maintenance of wind installations by 2010;
- 3,010 permanent, continuing jobs related to the management and maintenance of wind installations by 2029;
- \$464 million in continuous annual spending in maintenance and management by 2010 and \$4.4 billion by 2029;
- \$7.6 million in permanent annual wages by 2010 and \$96 million by 2029;
- \$1.25 billion per year in construction-related new investments and spending over the next two decades;
- \$21 million per year in new construction wages for the next two decades;
- \$4.8 million in lease payments to landowners per year by 2010 and \$47 million per year by 2029.

The study found that to meet the proposed 10 percent RPS by 2015:

- 1,250 wind turbines will need to be installed.
- 313 acres of wind tower land footprints will occur.
- 50,279 acres of wind farm area will be involved, of which 49,966 acres would continue to be usable for farming, grazing, forestry, or related alternative uses of the land.
- With a total of 37,361,780 acres of land area in Michigan, the proposed 2015 RPS goal would require use of only 0.14 percent of it.

The fact sheet is part of a series LPI is releasing to inform the debate on wind energy development in Michigan. The study, titled "Wind Turbines Required to Meet Michigan's 2015 Goals for Renewable Portfolio Standards (RPS) and Projected Land Footprints" is available at [www.landpolicy.msu.edu](http://www.landpolicy.msu.edu).



Wind Powering America Fact Sheet Series

**1** Wind energy is more expensive than conventional energy. Wind's variability does increase the day-to-day and minute-to-minute operating costs of a utility system because the wind variations do affect the operation of other plants. But investigations by utility engineers show these costs to be relatively small—less than about 2 mills/kilowatt-hour (kWh) at penetrations under 5% and possibly rising to 5 mills at 20% penetration. In fact, when the Colorado Public Service Commission issued a ruling in 2001 on the 161-megawatt (MW) wind project in Lamar, Colorado, the commission determined that wind energy provided the lowest cost of any new generation resource submitted to an Xcel Energy solicitation bidding process (except for one small hydro plant). The commission also noted that unlike the other generation resources considered, the Lamar project avoided the risk of future increased fuel prices.<sup>1</sup> And in a recent landmark study of wind integration into the New York State electric power system, a 10% addition of wind generation (3,300 MW of wind in a 34,000-MW system) actually projected a reduction in payments by electricity customers of \$305 million in one year.<sup>2</sup>



Crab Creek, Interwest Energy Alliance/PG&E

When the Colorado Public Service Commission issued a ruling in 2001 on the 161-MW wind project in Lamar, Colorado (pictured above), the commission determined that wind energy provided the lowest cost of any new generation resource submitted to an Xcel Energy solicitation bidding process (except for one small hydro plant).

**2** Wind energy requires a production tax credit (PTC) to achieve these economics. True, but every energy source receives significant federal subsidies; it is disingenuous to expect wind energy to compete in the marketplace without the incentives enjoyed by established technologies.<sup>3</sup>

**3** The production tax credit and accelerated depreciation are helpful only to big, out-of-state developers. The economic benefits aren't local, and rural electric cooperatives and municipal utilities can't receive the same benefits. It's true that only entities that pay federal taxes can use the tax credits to reduce their tax liability. But those tax credits result in lower wind energy costs for the benefit of all electricity customers. However, if local entities assume equity positions in wind plants, then they can receive the tax credit benefits. Whether or not the wind-plant equity is locally held, wind plants result in jobs for the local community and the need for local services—both during construction and during operation. Additionally, the added county and state taxes and the landowner lease payments directly benefit the local and state economies. And to the extent that debt financing comes from local sources, debt-service payments stay within the local community.

Also, in some cases farmers have joined together in a cooperative arrangement to build and own wind plants. In aggregate, their tax liability can be sufficient to make full use of the tax credits.<sup>4</sup>

**4** Wind energy is unpredictable and must be "backed up" by conventional generation. No power plant is 100% reliable. During a power plant outage—whether a conventional plant or a wind plant—backup is provided by the entire interconnected utility system. The system operating strategy strives to make best use of all elements of the overall system, taking into account the operating characteristics of each generating unit and planning for contingencies such as plant or transmission line outages. The utility system is also designed to accommodate load fluctuations, which occur continuously. This feature also facilitates accommodation of wind plant output fluctuations. In



U.S. Department of Energy

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Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable



Denmark, Northern Germany, and parts of Spain, wind supplies 20% to 40% of electric loads without sacrificing reliability. When wind is added to a utility system, no new backup is required to maintain system reliability.

**5** If wind energy displaces energy from existing coal plants, then rates will go up. Rates for electricity from wind plants being installed today are comparable to wholesale electric power prices of 2.5¢ to 3.5¢/kWh. The incremental cost of wind power, if any, will be negligible when distributed among all customers. A number of studies have examined the rate impacts of wind and have considered the costs of various renewable portfolio standard percentages from 5% to 10%, and average residential bill impacts are predicted to range from a savings to a premium of 25¢/month. In fact, some studies predict the accompanying decrease in demand for conventional fuels will reduce fuel prices enough to fully compensate for slightly higher costs for renewables. In the New York study mentioned above, wind displaced energy from both coal and natural gas plants. Rates decreased, and harmful emissions from the coal and gas plants were reduced as well.<sup>5</sup>

**6** New natural gas power plants provide cheaper energy than wind plants. This is not likely with today's rising gas prices. At \$3/MBTU, the fuel cost alone is 2.5¢ to 3¢/kWh, and capital and O&M costs add a similar amount. Today, gas prices have risen to more than \$6/MBTU, yielding a fuel cost alone in the 5¢ to 6¢/kWh range. And gas prices have spiked to more than \$10/MBTU in past years. Betting on low gas prices over the foreseeable future is highly risky, while energy costs from wind plants will be relatively stable over time. In a recent study, Lawrence Berkeley National Laboratory found that the natural gas "hedge value" of wind could be conservatively estimated to be 1/2 cent/kWh.<sup>6,7</sup>

**7** Large, utility-grade wind turbines can't be installed on the distribution grid without expensive upgrades and power-quality issues. In situations with weak distribution grids (long lines with thin wires and few customers—maybe even single-phase), this can be true. However, in many cases wind generation can be connected to the distribution system in amounts up to about the rating of the nearest substation transformer. One study of a rural Midwestern county estimated that several tens of megawatts of turbines could be installed on the local distribution grid with a minimum of upgrade expense and minimal power-quality impacts. A number of single wind turbines and clusters of turbines are currently connected to the distribution system.<sup>8</sup>

**8** Small projects that might be suitable for co-ops or small municipal utilities are not economical. Small projects generally have a higher cost per megawatt than larger wind plants, as would be expected. However, the incremental costs on customers'

bills are likely to be small. The energy premium for a small project is unlikely to exceed 50%. If the project provides a small portion of the community's needs—say 2%—then the premium is reduced to about 1% if distributed among all customers. Some communities view this premium as a worthwhile investment to obtain local environmental benefits and experience with wind power.

**9** Wind turbines kill birds and thus have serious environmental impacts. Bird kills have caused serious scientific concern at only one location in the United States: Altamont Pass in California, one of the first areas in the country to experience significant wind development. Over the past decade, the wind community has learned that wind farms and wildlife can and do coexist successfully. Wind energy development's overall impact on birds is extremely low (<1 of 30,000) compared to other human-related causes, such as buildings, communications towers, traffic, and house cats. Birds can fly into wind turbines, as they do with other tall structures. However, conventional fuels contribute to air and water pollution that can have far greater impact on wildlife and their habitat, as well as the environment and human health.

**10** Wind turbines are noisy. Modern wind turbines produce very little noise. The turbine blades produce a whooshing sound as they encounter turbulence in the air, but this noise tends to be masked by the background noise of the blowing wind. An operating modern wind farm at a distance of 750 feet to 1000 feet is no more noisy than a kitchen refrigerator.

You can find more information on wind energy myths at [www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/wpa/34600\\_misconceptions.pdf](http://www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/wpa/34600_misconceptions.pdf)

<sup>1</sup> [www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/xcel\\_wind\\_decision.pdf](http://www.eere.energy.gov/windandhydro/windpoweringamerica/pdfs/xcel_wind_decision.pdf)

<sup>2</sup> [www.nyserda.org/publications/wind\\_integration\\_report.pdf](http://www.nyserda.org/publications/wind_integration_report.pdf)

<sup>3</sup> For more on energy subsidies, visit [www.earthtrack.net](http://www.earthtrack.net)

<sup>4</sup> Mark Bollinger, A Survey of State Support for Community Wind Power Development (<http://eetd.lbl.gov/ea/EMS/cases/>)

<sup>5</sup> [www.nyserda.org/publications/wind\\_integration\\_report.pdf](http://www.nyserda.org/publications/wind_integration_report.pdf)

<sup>6</sup> <http://eetd.lbl.gov/ea/ems/reports/56756.pdf>

<sup>7</sup> Alan Greenspan, Federal Reserve Chairman, testimony at Senate committee hearing, July 10, 2003

<sup>8</sup> Distributed Wind Power Assessment, National Wind Coordinating Committee, February 2001, available at [www.nationalwind.org](http://www.nationalwind.org)

Top photo page 1: © GE Wind Energy All Rights Reserved/PDX12335

DOE/GO-102005-2137 • May 2005



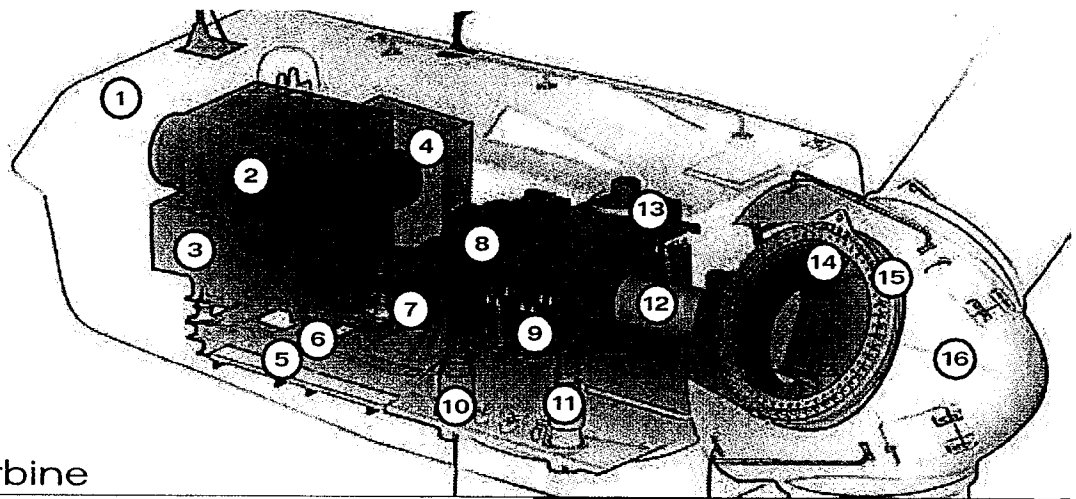
#### A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

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## Components of a Turbine

Today's utility-scale wind turbines manufacturers produce turbines that range from a 1-MW generator with a 57-meter rotor diameter on a 65-meter tower to a 3-MW generator with a 90-meter rotor diameter on an 80-meter tower. The turbine most commonly installed in 2007 was the GE 1.5-MW turbine, which has a 70.5- to 77-meter rotor diameter on a tower with heights ranging from 52.6 to 100 meters. The average capacity of all wind turbines installed in 2007 was 1.6 MW. Manufacturers are designing larger turbines, up to 5 MW, mostly for offshore installations.

In 2007 alone, the U.S. wind industry installed over 3,200 turbines. To install that number of turbines, the U.S. industry required 9,564 blades and the same number of tower sections, approximately 1,557,000 bolts, 17,425 miles of rebar, and 805,000 cubic yards of concrete (enough for more than 3,700 miles of 4-foot wide sidewalk). There are over 8,000 components in each turbine assembly.

### Rotor

The rotor for a typical utility-scale wind turbine is made of three high-tech blades, ranging in size from about 30 to 45 meters. The blades are made of laminated materials – such as composites, balsa wood, carbon fiber, and fiberglass – that have high strength-to-weight ratios. These materials are molded into airfoils to maximize the wind's lift. The blades also often include material to protect against lightning strikes. They are bolted onto the hub, with a pitch mechanism interposed to allow the blade to rotate on its axis to take advantage of different wind speeds. The longest blade made by LM Glasfiber, the world's largest wind turbine blade supplier, is 61.5 meters long, made for the 5-MW REPower turbine in Germany.

The hub – usually made of cast iron – is one of a wind turbine's heaviest components, weighing 8 to 10 tons for a 2-MW turbine. The hub is covered by the nose cone.

### Generator System

The heart of the wind turbine is its electricity generating system. Inside the nacelle of a typical wind turbine, the rotor drives a large shaft into a gearbox, which steps up the revolutions per minute to a speed suitable for the electrical generator. A wind turbine gearbox must be robust enough to handle the frequent changes in torque caused by changes in the wind speed. The gearbox requires a lubrication system to minimize wear. Wind turbines being sold in the U.S. have either variable-speed or synchronous generators, depending on the model being sold. In most cases, the gearbox and generator are mounted on a bedplate to increase durability and minimize noise. As a safety mechanism, the shaft usually has two independent braking systems.

The turbine has a yaw drive system to keep the rotor facing into the wind and to unwind cables. The yaw drive system usually consists of an electric or hydraulic motor mounted on the nacelle which drives a pinion mounted on a vertical shaft through a reducing gearbox. It also has a brake in order to be able to stop a turbine from turning.

To control the functioning of the wind turbine, it is fitted with a number of sensors to read the speed and direction of the wind, the amount of electrical power generation, the rotor speed, the blades' pitch, the turbine's vibration, the temperature of the lubricants and other variables. A computer processes the inputs to carry out the normal operation of

*image courtesy of GE Energy*

- |                      |                 |
|----------------------|-----------------|
| 1. Nacelle           | 9. Impact Noise |
| 2. Heat Exchanger    | Insulation      |
| 3. Generator         | 10. Yaw Drive   |
| 4. Control Panel     | 11. Yaw Drive   |
| 5. Main Frame        | 12. Rotor Shaft |
| 6. Impact Noise      | 13. Oil Cooler  |
| Insulation           | 14. Pitch Drive |
| 7. Hydraulic Parking | 15. Rotor Hub   |
| Break                | 16. Nose Cone   |
| 8. Gearbox           |                 |

the turbine, with a safety system which can override the controller in an emergency. To condition and control the power output, the generator is equipped with a remote control and monitoring system.

### Tower

The nacelle and generator are mounted on top of a high tower to allow the blades to take advantage of the best winds. Towers are typically made of three or four tubular steel sections coated with paints and sealants and joined by bolts. Today's wind turbine tower is usually about 70 meters tall. Most towers come with load lifting systems with load-bearing capacity of more than 400 pounds.

### Construction

The tower is normally fitted with a base flange, which can be attached to the foundation by screwed rods cast into concrete or bolted to an embedded tower stub. For the foundation, a variety of slab, multi-pile and mono-pile solutions have been used for tubular towers, determined by the condition of the ground where the turbine is being mounted.

In addition to the erection of each turbine, there is additional construction work that

*continued on next page*

## Top 20 States with Wind Energy Resource Potential



The United States has tremendous wind energy resources. Although California gave birth to the modern U.S. wind industry, 16 states have greater wind potential.

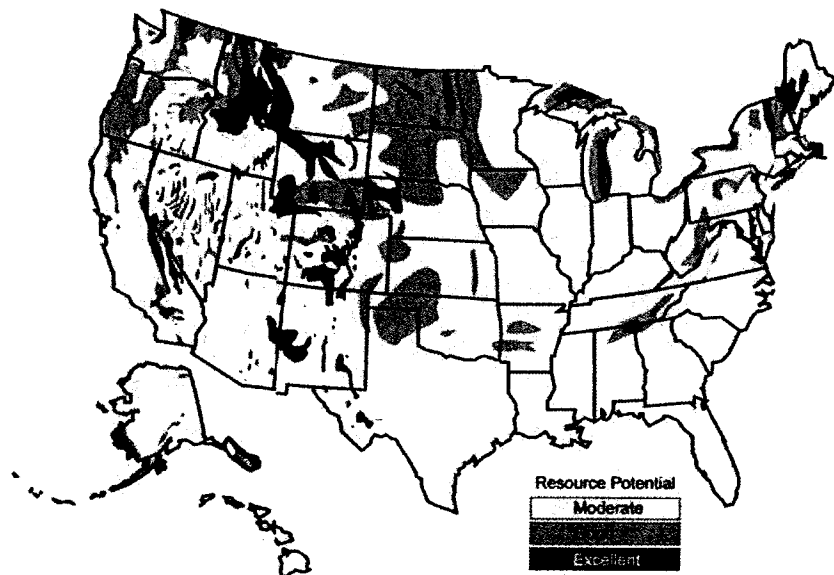
Installed wind energy generating capacity is now over 20,000 MW. The installed wind power fleet is expected to generate an estimated 48 billion kilowatt-hours (kWh) of wind energy in 2008, just over 1% of U.S. electricity supply, powering the equivalent of over 4.5 million homes.


By contrast, the total amount of electricity that could potentially be generated from wind in the United States has been estimated at 10,777 billion kWh annually—more than twice the electricity generated in the U.S. today.

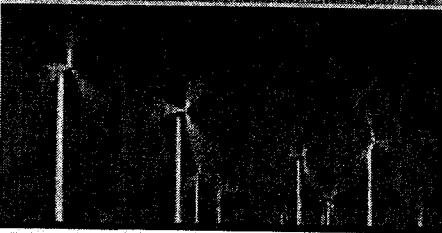
**THE TOP TWENTY STATES** for wind energy potential, as measured by annual energy potential in the billions of kWhs, factoring in environmental and land use exclusions for wind class of 3 and higher.


1	North Dakota	1,210	11	Colorado	481
2	Texas	1,190	12	New Mexico	435
3	Kansas	1,070	13	Idaho	73
4	South Dakota	1,030	14	Michigan	65
5	Montana	1,020	15	New York	62
6	Nebraska	868	16	Illinois	61
7	Wyoming	747	17	California	59
8	Oklahoma	725	18	Wisconsin	58
9	Minnesota	657	19	Maine	56
10	Iowa	551	20	Missouri	52

Source: *An Assessment of the Available Windy Land Area and Wind Energy Potential in the Contiguous United States*, Pacific Northwest Laboratory, 1991.









resources

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(As of 03/31/2009)

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Power Capacity - Existing projects (MW): 129.39

[Financing](#)

Power Capacity - Projects under construction (MW): 0

[Projects \(US\)](#)

Rank In US (by Existing Capacity): 24

[Industry Standards](#)

Rank In US (by Potential Capacity): 14

[Wind Energy Web Links](#)

Potential Capacity (in MW): 7460

Annual Energy (in billion kWh): 65

[Resources Home](#)Status: 

Sort table by a specific column by clicking on its heading.

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Name	Location	Power Capacity (MW)	Units	Turbine Mfr.	Developer	Owner	Power Purchaser	Year Onlin
Michigan Wind I	Huron County	69	46	GE Energy	Noble Environmental Power	John Deere Wind	Consumers Energy	2008
Stoney Corners Wind Farm		5	2	Fuhrlander	Heritage Sustainable Energy	Heritage Sustainable Energy	DTE Energy	2008
Harvest Wind Farm	Oliver & Chandler Townships	52.8	32	Vestas	John Deere Wind Energy	John Deere Wind Energy	Wolverine Power Cooperative	2008
Laker Elementary	Pigeon	0.2	3	Nordtank		Laker Elementary	Laker Elementary	2006
Mackinaw City	Mackinaw City	1.8	2	NEG Micon	Mackinaw Power	Mackinaw Power	Consumers Energy	2001
Traverse City Light & Power	Traverse City	0.6	1	Vestas	Traverse City Light & Power	Traverse City Light & Power	Traverse City Light & Power	1996



# Manufacturing



Michigan: Favored by geography with abundant wind supply and primed for wind energy growth as one of only four states rated with sufficient industrial capacity to manufacture, innovate and deploy wind turbine technology.

Alternative energy sources are being developed at an unprecedented rate. Wind energy is one of the most rapidly growing sources of power. Michigan is a leader in wind energy development, with a long history of wind energy research and development. The state's abundant wind supply and its strong industrial base make it an ideal location for wind turbine manufacturing.

**Existing Supply Chain:** Michigan's manufacturing base is well positioned to develop wind turbine components. The state has a strong tradition of manufacturing excellence, and its skilled workforce is well equipped to handle the challenges of wind turbine production. Michigan's existing supply chain includes a wide range of manufacturers, from raw material suppliers to finished product manufacturers. This diverse supply chain provides a strong foundation for wind turbine manufacturing.

**Supplier Opportunity:** The wind energy industry is growing rapidly, and there is a significant need for new suppliers. Michigan's manufacturing base is well positioned to meet this demand. The state's strong industrial base and its skilled workforce make it an ideal location for wind turbine manufacturing.

Michigan's abundant wind supply and its strong industrial base make it an ideal location for wind turbine manufacturing. The state's existing supply chain provides a strong foundation for wind turbine manufacturing. Michigan's manufacturing base is well positioned to meet the demand for wind turbine components.

**Prime location:** Michigan is a leader in wind energy development. The state's abundant wind supply and its strong industrial base make it an ideal location for wind turbine manufacturing. Michigan's manufacturing base is well positioned to meet the demand for wind turbine components.

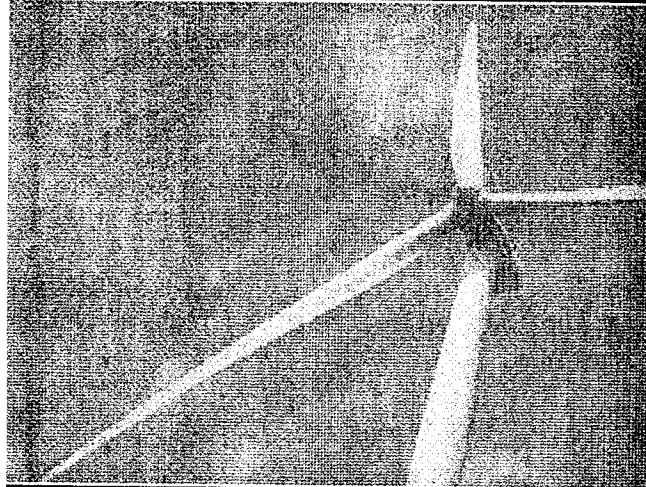
**Way to Go:** Michigan's manufacturing base is well positioned to meet the demand for wind turbine components. The state's strong industrial base and its skilled workforce make it an ideal location for wind turbine manufacturing.

**Everybody's on board:** Michigan's manufacturing base is well positioned to meet the demand for wind turbine components. The state's strong industrial base and its skilled workforce make it an ideal location for wind turbine manufacturing.

Michigan's manufacturing base is well positioned to meet the demand for wind turbine components. The state's strong industrial base and its skilled workforce make it an ideal location for wind turbine manufacturing.



# Wind Resource



Michigan: An inexhaustible supply of the essential raw material thanks to the Great Lakes. Ranked No. 42 among the states in onshore wind generation potential, the power generation of offshore and near-shore wind turbines could be up to 20 times greater. No supply problems here.

**Current Power:** Michigan uses about 29,000 megawatts (MW) of electricity in a year. It currently generates 129 MW of power from wind, most of which comes from John Deere Renewable Energy's Michigan Wind Park 1, a 46-turbine farm near Uby (Southeast Michigan).

**Power Potential:** Research by Michigan's Department of Energy, Labor and Economic Growth indicates the state could potentially generate 16,564 MW of power on land, and an additional 448,756 MW offshore. In addition, the National Renewable Energy Laboratory (NREL) estimates Michigan has more than 44,000 MW of doable offshore capacity. Many of the challenges of traditional offshore, such as tides, strong currents and saltwater, do not exist in the Great Lakes.

**Driving Demand:** A Renewable Portfolio Standard (RPS) requiring that 10 percent of the state's energy needs be generated from renewable sources by 2015 is driving demand and investment. Upwards of 1,100 new wind turbines will be required to meet that mandate. Michigan system content will be awarded extra Renewable Energy Credits.

**Supplier Opportunity:** Michigan is ranked as one of three states that will contribute more than 20 gigawatts (GW) to a national energy portfolio of 20 percent wind energy by 2030. This represents an enormous development and manufacturing opportunity for Michigan businesses able to meet the demand.

**Green Power Companies:** ITC Holdings Corp. (NYSE: ITC) rebates to the developer the full cost of system upgrades required to meet alternative energy standards. The Novi-based transmission company announced plans for a \$10 billion to \$12 billion transmission project across the upper Midwest designed to move wind-generated power from North and South Dakota, Minnesota and Iowa to states in the Midwest with a 2020 target date for completion.

**Future Power:** DTE and Consumers Energy have secured leases on more than 70,000 acres for potential new wind farm construction to meet the RPS requirements.

*The demand for alternative energy sources like wind power is about to explode, and Michigan is acting boldly and decisively to be the state that develops the technologies, manufactures the products and creates the new green jobs that will help end our nation's dependence on foreign oil.*

- Governor Jennifer M. Granholm

[illegible]

- ☐ I have a realistic understanding of the world and materials.
- ☐ I am moving into a new technology.
- ☐ I am a student of a new technology.

**Strong Technical Training:** Universities in the Great Lakes states (Michigan, Indiana, Illinois, Ohio, Wisconsin) provide more than 2,000 engineering degrees annually, with another 4,000 in Ontario, Canada. The region is particularly strong in mechanical and electrical engineering.

**Practical Studies** The Gagliardi brothers founded this engineering firm in 1960. The brothers have a reputation for being "hands-on" and "practical" in their approach to engineering. They have a strong focus on practical studies and have a reputation for being "hands-on" and "practical" in their approach to engineering.

Programs for wind professionals are being developed by state universities or community colleges, including:

- Western Michigan University and Kalamazoo Valley Community College have established a Wind Energy Center.
- Lansing Community College, first in the nation to incorporate alternative energy into its curricula, offers an Associate's Degree in Alternative Energy Technology.
- The Michigan Institute of Aviation and Technology has undertaken a major expansion of its power training program for wind.
- The Green Jobs Initiative in the Michigan Department of Energy, Labor & Economic Growth funds training for displaced and career-change workers in renewable energy fields.

8C

RESOLUTION NO. \_\_\_\_\_ FULL BOARD MEETING DATE: \_\_\_\_\_

AGENDA ITEM: \_\_\_\_\_

MACOMB COUNTY, MICHIGAN

**RESOLUTION TO** Support the County's Efforts to Host Chinese Business in Michigan and Chinese-American Leaders in Michigan to become more familiar with Macomb County on June 26, 2009

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs, Planning and Economic Development Committee

COMMITTEE/MEETING DATE

Planning and Economic Development      5-13-09  
\_\_\_\_\_  
\_\_\_\_\_

# **RECYCLABLE PAPER**

10A

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Report on the Gratiot Avenue Access Management Plan

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09

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RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Report on the Countywide Trail Master Plan

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

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RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Report on the University of Michigan Urban Planning Projects

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## 2010 Census Partner Resolution

### ***RESOLUTION DESIGNATING APRIL 1, 2010 AS CENSUS DAY IN Macomb County AND Assistance to Communities to Promote the Census and Citizen Participation***

*WHEREAS, the kick off day for the 2010 Census is April 1, 2010: and*

*WHEREAS, more than \$300 billion per year in federal and state funding is allocated to states and communities based on census data; and*

*WHEREAS, the 2010 Census creates jobs that stimulate economic growth and increase employment opportunities in our community; and*

*WHEREAS, The Macomb County Planning and Economic Development Department uses this data to develop promotional packages to promote the attraction and retention of businesses.*

*WHEREAS, an accurate census count is vital to our community and residents' well-being by helping planners determine where to locate schools, day-care centers, roads and public transportation, hospitals and other facilities, and is used to make decisions concerning business growth and housing needs; and*

*WHEREAS, census data ensures fair Congressional representation by determining how many seats each state will have in the U.S. House of Representatives as well as the redistricting of state legislatures, county and city councils, and voting districts; and*

*WHEREAS, the information collected by the census is protected by law and remains confidential for 72 years; and*

*WHEREAS, as a 2010 Census partner, Macomb County Communities with the assistance of the Macomb County Planning and Economic Development Department will support the goals and ideals for the 2010 Census and will disseminate 2010 Census information to encourage community participation: encourage people in Macomb County, Michigan to place an emphasis on the 2010 Census and to participate in events that will raise overall awareness of the 2010 Census to ensure a full and accurate count*

*THEREFORE BE IT RESOLVED that the Macomb County Board of Commissioners hereby designates April 1, 2010 as Census Day in Macomb County and supports the efforts of the Macomb County Planning and Economic Development Department in an effort to obtain a 100% count for the 2010 Census.*





# 2010 CENSUS: IT'S IN OUR HANDS

## *What You Need to Know about the 2010 Census*

In 2010, the U.S. census will define who we are as a nation. Taken every 10 years, the census affects political representation and directs the allocation of billions of dollars in government funding. As a 2010 Census partner, you can educate your community about the importance of participating in this historic event and help ensure no one is left uncounted. You can help your community receive the fiscal and social benefits to which it is entitled. **Achieving a complete and accurate 2010 Census is in our hands.**

### **The Census: A Snapshot**

- ▲ The U.S. Constitution requires a national census once every 10 years.
- ▲ The census is a count of everyone residing in the United States: in all 50 states, Washington, D.C., Puerto Rico, U.S. Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and American Samoa. This includes people of all ages, races, ethnic groups, both citizens and non-citizens.
- ▲ The 2010 Census will create hundreds of thousands of temporary jobs across the nation.

### **It's in Our Hands: Your Participation in the 2010 Census Matters**

- ▲ Every year, more than \$300 billion in federal funds is awarded to states and communities based on census data. That's more than \$3 trillion over a 10-year period.
- ▲ Census data guide local decision-makers in important community planning efforts, including where to build new roads, hospitals and schools.
- ▲ Census data affect your voice in Congress by determining how many seats each state will have in the U.S. House of Representatives.

### **Completing the 2010 Census Questionnaire: Simple and Safe**

- ▲ The 2010 Census questionnaire asks only a few simple questions of each person—name, relationship, gender, age and date of birth, race, and whether the respondent owns or rents his or her home. This simple, short questionnaire takes just a few minutes to complete and return by mail.
- ▲ The Census Bureau does not release or share information that identifies individual respondents or their household for 72 years.

[www.census.gov/2010census](http://www.census.gov/2010census)



## **2010 CENSUS:** *Frequently Asked Questions*

### **Why should everyone participate in the 2010 Census?**

Census data shape the future of your community and define your voice in Congress.

- ▲ Census information helps determine locations for schools, roads, hospitals, child-care and senior citizen centers, and more.
- ▲ Businesses use census data to locate supermarkets, shopping centers, new housing and other facilities.
- ▲ The census determines how many seats each state will have in the U.S. House of Representatives as well as the boundaries of legislative districts.

### **How will the 2010 Census differ from previous census efforts?**

In the last census, one in six households received a long questionnaire asking for detailed socioeconomic information. In 2010, every residence will receive a short questionnaire that is simple and fast to complete and return. More detailed information will be collected annually from a small percentage of the population through the American Community Survey.

### **Will the information the Census Bureau collects remain confidential?**

Yes. Every Census Bureau worker takes an oath for life to protect the confidentiality of census responses. Violation would result in a jail term of up to five years and/or fine of up to \$250,000. By law, the Census Bureau cannot share an individual's answers with anyone, including welfare and immigration agencies.

### **Why are partners so important to the 2010 Census campaign?**

More than 140,000 organizations supported Census 2000, including state and local governments, community- and faith-based organizations, schools, media, businesses and others. The Census Bureau relies on partners to help explain the importance of completing the 2010 Census message to people in every corner of the United States. This is particularly important in areas isolated by language or geography. By joining forces with partners, the Census Bureau has a far greater chance to reach every U.S. resident than by attempting this monumental task alone.

### **2010 Census Timeline: Key Dates**

<b>Fall 2008</b>	Recruitment begins for local census jobs for early census operations.
<b>Spring 2009</b>	Census employees go door-to-door to update address list nationwide.
<b>Fall 2009</b>	Recruitment begins for census takers needed for peak workload in 2010.
<b>February - March 2010</b>	Census questionnaires are mailed or delivered to households.
<b>April 1, 2010</b>	Census Day
<b>April - July 2010</b>	Census takers visit households that did not return a questionnaire by mail.
<b>December 2010</b>	By law, Census Bureau delivers population counts to President for apportionment.
<b>March 2011</b>	By law, Census Bureau completes delivery of redistricting data to states.

**For more information about the 2010 Census, please go to [www.census.gov/2010census](http://www.census.gov/2010census).**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorize PED to Accept \$25,000 from the State of Michigan's Centers for Regional Excellence Program on Behalf of the Van Dyke-8 Mile Gateway Collaborative (V-8 Gateway)

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

During 2008, the Macomb County Department of Planning and Economic Development was successful in assisting the Van Dyke – 8 Mile Gateway Collaborative apply for the State of Michigan's "Centers for Regional Excellence" (CRE) program.

The distinction provides additional opportunities for selected groups to apply for a variety of economic development programs offered by State agencies including the Department of Transportation, Department of Natural Resources and others. In addition, CRE's are awarded \$25,000 to apply toward activities designed to enhance regional collaboration resulting in shared benefits.

The V8 Gateway will use funding to develop and support an association of businesses that are located within the defined district (between Mound and Hoover; and Six and Ten Mile Roads within the cities of Center Line, Detroit and Warren).

The Macomb County Department of Planning & Economic Development will serve as fiduciary of grant funds at no additional cost to the County.

**COMMITTEE/MEETING DATE**

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PED/5-13-09  
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added

106

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE: \_\_\_\_\_

AGENDA ITEM: \_\_\_\_\_

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorization to enroll in the Rebuild Michigan Program for the purpose of  
conducting a technical Energy analysis for the following Buildings:

County Building, Court Building, Jail, Southeast Health Center, & Verkuilen Building

**INTRODUCED BY:** Commissioner Toni Mocerri

Ad Hoc Committee on Energy

**COMMITTEE/MEETING DATE**

AD HOC Committee on Energy May 5, 2009 *APPROVED*

*PED*

*5-13-09*

# Rebuild MI Advantages

Rebuild MI helps public facility managers:

- Reduce operating costs
- Increase occupant comfort & productivity
- Pay for projects through energy cost savings
- Raise public awareness & support for energy efficiency
- Increase building system equipment life
- Increase funding for core activities
- Limit harmful emissions
- Showcase leadership & environmental stewardship

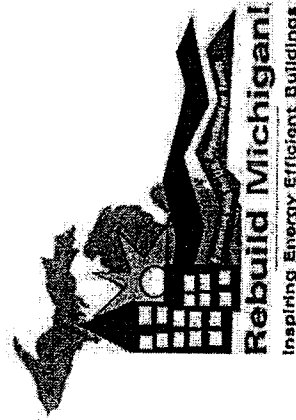
More than 550 schools, colleges and municipalities have benefited from Rebuild MI.

Rev. 11/2008

MICHIGAN  
ENERGY OFFICE

REBUILD  
Michigan

## Energy Assistance For Public Buildings



[www.michigan.gov/eormes](http://www.michigan.gov/eormes)

517.241.6228

MI Department of  
Labor & Economic Growth  
Energy Office  
P.O. Box 30221  
611 W. Ottawa, 4th Floor  
Lansing, MI 48909

## Rebuild Michigan ENROLLMENT AGREEMENT

This agreement between the Michigan Department of Energy, Labor & Economic Growth, Bureau of Energy Systems (BES) and the [ ], outlines each organization's responsibilities for participating in the Rebuild Michigan program. Rebuild Michigan fosters partnerships that promote increased energy efficiency and renewable energy within a community. Rebuild Michigan provides services to public schools, community colleges, universities, public housing commissions and local governments to encourage energy efficiency improvements in their facilities. Assistance includes an assessment of energy savings potential for each building and recommendations and consultation regarding next steps (including an appropriate level of engineering services for Technical Energy Analyses (TEA)/project). A consultants' directory, project financing information and project troubleshooting are also offered.

### **The Enrollee agrees to:**

- Designate an organization representative to serve as the principal contact with BES.
- Provide specific information for each participating building (see page 2).
- Present the Introductory Energy Evaluation report (prepared by BES) to the appropriate governing body, committee or individual responsible for approving an energy efficiency project.

If energy efficiency potential is identified the Enrollee agrees to:

- Participate in a planning session with BES staff to discuss/assess enrollee interest in undertaking an energy efficiency project and to determine what BES support services will be needed.

If Enrollee decides to pursue a TEA or performance contract, the Enrollee agrees to:

- Contract with TEA analyst or Energy Service Co. (ESCO) to complete a TEA for each participating building. (Guidelines are available from the BES for quality assurance.)
- Direct their selected TEA analyst or ESCo to forward a draft copy of the TEA report to BES for review and approval, prior to organization's acceptance.
- Present TEA/performance contract recommendations to the appropriate governing body, committee or individual responsible for authorizing the recommended energy efficiency project(s).

When authorized to implement the project, the Enrollee agrees to:

- Provide a description & cost of the installed energy efficiency measures and copies of current utility bills for participating buildings to the BES as reasonably requested.

### **The Bureau of Energy Systems agrees to:**

- Analyze the previous 12-months of energy usage for each participating building (up to 10 buildings or a maximum of 750,000 ft<sup>2</sup>), conduct a walk-through of each building and provide the Enrollee with a written report on their relative energy efficiency and areas for potential savings.
- Maintain a directory of consultant firms that conduct TEAs and participate in the Rebuild Michigan Program...
- Review all Technical Energy Analyses for quality, accuracy and completeness.
- Assist enrollee in resolving technical issues that may arise during project installation.
- Assist enrollee in evaluating first year energy savings and other project benefits.

# Contact/Building Information

Contact Person & Title:

Ph. #:  Fax #:  E-mail:

Address:

City:  State: Michigan Zip Code:

## Rebuild Michigan Project Buildings:

	Building Name	Address	Sq. Ft.	Yr. Built
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

\*Most recent 12 months of utility data (or copies of utility bills) is required for each building listed

Planning Questions: (500 character maximum, attach additional sheet(s) if necessary)

1. What are your goals for building performance and energy reduction?

2. How will building energy improvements fit in with other organization priorities?

--

3. What financing options and sources are you considering for building improvements?

--

4. What is your likely timeframe for developing and completing an energy efficiency project?

--

Enrollee:
<div></div>
Signature/Date
<div></div>
Title/Position

Bureau of Energy Systems, MI Department of Energy, Labor & Economic Growth:
<div></div>
Signature/Date
<div></div>
Title/Position



added

10H

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Authorize PED to Coordinate the Preparation of the EECBG Proposal in Time for the June 25 Deadline

INTRODUCED BY: Commissioner Toni Mocerri, Chair of the Ad Hoc Committee on Energy

DESCRIPTION:

See Attached

COMMITTEE/MEETING DATE

Ad Hoc Committee on Energy/5-6-09 APPROVED  
PED 5-13-09

*Overview*  
American Reinvestment and Recovery Act  
**Energy Efficiency and Conservation Block Grant (EECBG)**  
*as prepared by the Macomb County Department of Planning & Economic Development*

Purpose: to assist eligible entities in creating and implementing strategies to:

- Reduce fossil fuel emissions in a manner that is environmentally sustainable and, to the maximum extent practicable, maximizes the benefits for local and regional communities;
- To reduce the total energy use of the eligible entities; and
- To improve energy efficiency in the building sector, the transportation sector and other appropriate sectors.

Desired program outcomes include:

- Increased energy efficiency, reduced energy consumption and reduced energy costs through efficiency improvements in the building, transportation and other appropriate sectors;
- New jobs and increased productivity to spur economic growth and community development;
- Accelerated deployment of market-ready distributed renewable energy technologies, including wind, solar, geothermal, hydropower, biomass and hydrogen technologies;
- Improved coordination of energy-related policies and programs across jurisdictional levels of governance and with other local and community level programs in order to maximize the impact of this program on long-term local priorities;
- Increase security, resilience and reliability of energy generation and transmission infrastructure;
- Leveraging of the resources of federal, state and local government, utilities and utility regulators, private sector and non-profit organizations to maximize the resulting energy, economic and environmental benefits; and
- Widespread use of innovative financial mechanisms that transform markets.

Eligible activities include:

- Development of an “*Energy Efficiency and Conservation Strategy*” – required of all recipients
- Technical consultant services
- Residential and commercial building energy audits
- Financial incentive programs
- Energy Efficiency retrofits
- Energy Efficiency and Conservation program for buildings and facilities
- Development and implementation of transportation programs
- Building codes and inspections
- Energy distribution
- Material conservation programs
- Reduction and capture of methane and greenhouse gases
- Traffic signals and street lighting
- Renewable energy technologies on government buildings
- Any other appropriate activity

### Energy Efficiency and Conservation Strategy (EECS)

All applications must submit an EECS. LUGs have an option of submitting the EECS no later than 120 days after the effective date of the award. The EECS will address the following:

1. Describe your government's proposed EECS. Provide a concise summary of your measurable goals and objectives, which should be aligned with the defined purposes and eligible activities of the EECBG program. These goals and objectives should be comprehensive and maximize benefits community-wide. Provide a schedule or timetable for major milestones. If your government has an existing energy, climate or other related strategy please describe how these strategies related to each other.
2. Describe your government's proposed implementation plan for the use of EECBG program funds to assist you in achieving the goals and objectives outlines in question #1. Your description should include a summary of the activities submitted on your activity worksheets and how each activity supports one or more of your strategy's goals/objectives.
3. Describe how your government is taking into account the proposed implementation plans and activities for use of funds by adjacent units of local government that are grant recipients under the program
4. Describe how your government will coordinate and share information with the state in which you are located regarding activities carried out with grant funds to maximize energy efficiency and conservation benefits.
5. Describe how this plan has been designed to ensure that it sustains benefits beyond the EECBG funding period.
6. The President has made it clear that every taxpayer dollar spent on our economic recovery must be subject to unprecedented levels of transparency and accountability. Describe the auditing or monitoring procedure currently in place or that will be in place (by what date) to ensure funds are used for authorized purposes and every step is taken to prevent instances of fraud, waster, error and abuse.

### Funding restrictions

Up to 10 percent of \$75,000 whichever is greater, of grand funds may be used for administrative expenses, excluding the cost of meeting the reporting requirements of the program.

Administrative costs are the allowable, reasonable and allocable direct and indirect costs related to overall management of the awarded grant.

Up to 20 percent or \$250,000, whichever is greater, of grant funds may be used to establish a revolving loan fund.

Up to 20 percent or \$250,000, whichever is greater, of grant funds may be used for the provision of subgrants to nongovernmental organizations for the purposes of assisting in the implementation of the Energy Efficiency and Conservation Strategy.

### Timeline

Applications are due June 25, 2009 by 8 p.m. eastern time. Applicants must be registered with

### Eligible applicants

- All 50 states plus the District of Columbia and territories of the United States (Puerto Rico, The U.S. Virgin Islands, American Samoa, Guam and the Commonwealth of the Northern Mariana Islands)
- Cities with a population of more than 35,000 (or the ten most populated cities within a state)
- Counties with a population of more than 200,000 (or the ten most populated counties within a state)

### Allocations

The American Recovery and Reinvestment Act of 2009 appropriated \$3.2 billion for EECBG for fiscal year 2009. Of that:

- \$1,863,881,000 for formula grants to eligible cities and counties
- \$767,480,000 for formula grants to states
- \$54,819,900 for formula grants to eligible Indian tribes

DOE will retain \$59 million to provide technical assistance and training for grantees under the program. Each state is required to pass not less than 60 percent of its allocation through to cities and counties within the state that are ineligible for direct formula grants.

Specifically, the State of Michigan (Energy Office) will receive \$19,599,600. In Macomb:

<b>Entitlement Community</b>	<b>Allocation</b>
Chesterfield Township	\$181,100
Clinton Township	894,600
Macomb Township	610,200
Roseville	198,600
Shelby Township	651,200
St. Clair Shores	544,000
Sterling Heights	1,203,800
Warren	1,358,600
<b>Macomb County</b>	<b>746,400</b>
<b>TOTAL</b>	<b>\$6,388,500</b>

All funds must be obligated/committed within 18 months of the effective date of the award and expended within 36 months of the effective date of award. (It is anticipated that awards will be announced within 60 days of submittal)

Eligible entities receiving more than \$250,000 but less than \$2 million may receive up to \$250,000 for development of the EECS and approved activities. The EECS is required within 120 days of the effective date of the award. The balance of the allocation will be obligated upon DOE approval of the EECS.

### Cost Sharing

Not required; however, leveraging of funds by grantees is encouraged in order to maximize the total additional energy-related benefits resulting from the program.

# **RECYCLABLE PAPER**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Approve the Contract with the E.P.A. for the Award of \$200,000 for Initiation of the Brownfield Petroleum Substance Assessment Grant

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED 5/13/09 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Resolution to contract with USEPA for BF Grant BF00E82401-0 for Petroleum Materials:**

Resolution to approve the contract with United States Environmental Protection Agency (EPA Region 5) for the award of \$200,000 for initiation of the Brownfield Petroleum Substances Assessment Grant with Macomb County. The Grant is to commence in 2009 and run through January 2012, or until grant funds are diminished. Grant BF00E82401-0 for Petroleum Materials.

Budget includes:

### **BUDGET:**

**Macomb County has received notice of one \$200,000 grant award for assessment of petroleum-contaminated sites. A following budget table has been prepared representing the tasks and costs associated with the grant.**

Budget Categories	Task 1. Inventory	Task 2. Environmental Assessments	Task 3. Community Outreach	Task 4. Policy Development	Task 5. Eligible Programmatic Expenses	Totals
Personnel	\$2,500	\$2,000	\$2,000	\$2,000	\$7,500	\$16,000
Travel	\$0	\$0	\$0	\$0	\$5,000	\$5,000
Equipment	\$0	\$0	\$0	\$0	\$3,500	\$3,500
Supplies	\$1,000	\$1,500	\$0	\$0	\$2,000	\$4,500
Contractual	\$2,000	\$156,000	\$2,000	\$2,000	\$9,000	\$171,000
Total	\$5,500	\$159,500	\$4,000	\$4,000	\$27,000	\$200,000

**Personnel and Fringe Benefits:** All County personnel & fringe benefit costs included in this budget are to cover eligible programmatic costs only. Budget figures for each category are estimated at \$50.00/hour for personnel & fringe benefits, i.e., the \$2,000 budgeted for community outreach reflects 40 hours of programmatic staff time. Key personnel includes Gerard Santoro, who will be spending approximately 15% of his time on grant implementation.

**Travel:** Total anticipated expenditures for travel is \$5,000. This figure accounts for the costs associated with EPA training and regional and national conference attendance by one or more representatives of the staff involved with the assessment project during the three years of the grant funding cycle. Regional conferences may include conferences similar to the Michigan Brownfields Association Conference. Annual Conferences will be those hosted by the EPA. All conference travel will be authorized with EPA Region 5 staff, prior to registration. The following is an estimated Travel Expense Budget Detail.

**Equipment:** \$3,500 is needed to keep equipment up to date. However, in the course of the project, there may be an identified need for equipment, such as field equipment, digital camera equipment, and computer software or hardware. A request will be made to the EPA for a line item transfer in such cases. Prior to any equipment purchases, the project manager will seek pre-approval from EPA Region 5 staff.

**Supplies:** The total anticipated cost of supplies is \$4,500. Expenditures for supplies would include costs associated with the publication, preparation, and distribution of community involvement and outreach materials.

**Contractual:** The total anticipated cost for contractual services is \$171,000 for the petroleum grant. This figure accounts for the costs associated with the selected environmental consultants for the development of the inventory and GIS website, preparation of one QAPP for petroleum contaminants, and the conduct of, and reporting on, the Phase I and Phase II Environmental Site Assessments, BEAs and Brownfield Plans.

Tasks	Number of Sites	Cost per Site	Total Cost
Inventory			\$2,000
QAPP and HASP			\$2,000
Phase I ESA	20	\$2,200	\$44,000
Phase II ESA	10	\$9,000*	\$90,000
BEA/Due Care Plan	5	\$3,000	\$15,000
Brownfield Plans	2	\$2,500	\$5,000
Outreach			\$2,000
Policy Development			\$2,000
Program Expenses			\$9,000
Total			\$171,000

\*average

**PROJECT MANAGER:**

Gerard Santoro, AICP, Senior Planner; MCPED





## U.S. ENVIRONMENTAL PROTECTION AGENCY ASSISTANCE AGREEMENT NOTICE

### RECIPIENT NAME AND ADDRESS:

County of Macomb  
Attn: Gerard Santoro  
1 South Main Street  
7<sup>th</sup> Floor  
Mount Clemens, MI 48043

Assistance # BF00E82401-0

*PETROLEUM*

☒ Notice of Award/Assistance Agreement

Assistance Amendment

☐ Increase

☐ Decrease

☐ Time Extension

☐ Administrative Changes

Enclosed are two copies of an Assistance Agreement from the U.S. Environmental Protection Agency.

To provide your affirmation of this award, please carefully review the entire document, terms and conditions, and any applicable regulations. Please sign<sup>1</sup> and date the Affirmation of Award section on the first page and return one original copy to the following address within 21 days<sup>2</sup> of your receipt of the Assistance Agreement:

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5  
ASSISTANCE SECTION  
77 WEST JACKSON BOULEVARD, MC-10J  
CHICAGO, ILLINOIS 60604

ATTN: Francisca Ramos, EPA Grant  
Specialist

The other original should be retained for your official records and copies distributed within your organization as needed. Please note that funds will not be available for drawdown until we receive your countersigned affirmation of this award. If the Notice of Award includes any terms and conditions requiring signed certifications or assurances, you must return them with the signed agreement.

Please reference the EPA Assistance Number on all future correspondence regarding this Assistance Agreement. If you have any questions, you may contact the Project Officer (programmatic concerns) or the Grant Specialist (administrative concerns), as identified on page one of the Assistance Agreement.

<sup>1</sup> MUST be signed by the authorized representative as shown on the Assistance Agreement signature block or by a formally authorized delegate.

<sup>2</sup> Failure to countersign and return within (21) days of receipt may result in withdrawal of this agreement.

**U.S. Environmental Protection Agency  
Region 5  
Assistance Section**

Francisca Ramos, 312-886-5945  
EPA R5



Gerard Santoro  
MA CO MI - Macomb County Michigan  
1 South Main Street, 7th Floor  
Macomb, MI 48043

Your EPA Grant Application titled, County of Macomb, was received on 01/12/2009 by the Assistance Section of EPA R5. It has been assigned the Grant Number 00E82401-0 for future tracking purposes. The application was forwarded to Craig Mankowski ((312) 886-9493), who will coordinate the programmatic review of the application, on 01/12/2009.

Please contact me if you have any additional questions.  
Sincerely,

Artie Avant

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Approve the Contract with the E.P.A. for the Award of \$200,000 for Continuation of the Brownfield Hazardous Substances Assessment Grant

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_  
PED 5/13/09  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Resolution to contract with USEPA for BF Grant BF00E82501-0 for Hazardous Materials:**

Resolution to approve the contract with United States Environmental Protection Agency (EPA Region 5) for the award of \$200,000 for continuation of the Brownfield Hazardous Substances Assessment Grant with Macomb County. The Grant is to commence in 2009 and run through January 2012, or until grant funds are diminished. Grant BF00E82501-0 for Hazardous Materials.

Budget includes:

### **Budget**

Budget Categories	Project Tasks					Total
	Outreach and Inventory	Phase I ESAs	Phase II Assessments	Baseline Environment Assessments	Hazardous Materials Survey	
Personnel	\$26,000					\$26,000
Travel	7,500					7,500
Equipment						
Supplies	1,500					1,500
Contractual	13,000	\$44,000	\$90,000	\$9,000	\$9,000	165,000
Other						
Totals	\$48,000	\$44,000	\$90,000	\$9,000	\$9,000	\$200,000

### **Budget Detail by Task**

Outreach and Inventory: MCPED staff will spend an average of 10 hours per week on this project x 52 weeks for a total of 520 hours annually. The budget reflects a request to fund one half of this expense over a two-year period. ( $1,040 \text{ hours} / 2 = 520 \text{ hours} \times \$50 \text{ salary/benefits} = \$26,000$ ).

Travel: Also included under this task is *travel* to workshops related to brownfield redevelopment, including:

EPA Region 5's "Grants Administration Workshop": (\$350 Lodging + \$250 Travel Costs + \$200 Additional Costs) = \$800

EPA Region 5's "Nuts & Bolts Conference": \$350 Registration + \$500 Lodging + \$700 Travel + \$550 Additional Expenses = \$2100 x Two (2) MCPED Staff = \$4200

\*\* EPA National Conference: (\$500 Lodging + \$600 Travel + \$900 Air Fare + \$400 Additional Expenses) = \$2500. Travel to be booked Spring 2009 for Fall BF Conference. Project Manager Gerard Santoro in attendance.

Supplies: Reflects an estimate for costs associated with producing materials for outreach efforts to the public.

Contractual: This to enlist the assistance of an environmental consultant for outreach efforts.

Phase I Assessments: A *contractual* environmental consultant will conduct ASTM Phase I Environmental Site Assessments on approximately 20 prioritized sites at an estimated cost of \$2,200 per site.

Phase II Assessments: A *contractual* environmental consultant will conduct ASTM Phase II Environmental Site Assessments on approximately 5 - 10 sites at an estimated cost of \$9,000 per site.

Baseline Environmental Assessments (BEA)/Due Care Plans: A *contractual* environmental consultant will conduct Baseline Environmental Assessments (BEA) at an estimated cost of \$3,000 per site as appropriate.

Hazardous Materials Survey: A *contractual* environmental consultant will conduct Hazardous Materials Survey prior to building demolition at an estimated cost of \$5,000 per site as appropriate.

Project Manager:  
Gerard Santoro, AICP, Senior Planner; MCPED



## U.S. ENVIRONMENTAL PROTECTION AGENCY ASSISTANCE AGREEMENT NOTICE

### RECIPIENT NAME AND ADDRESS:

County of Macomb  
Attn: Gerard Santoro  
1 South Main Street  
7<sup>th</sup> Floor  
Mount Clemens, MI 48043

Assistance # BF00E82501-0

*HAZARDOUS*

☒

Notice of Award/Assistance Agreement

☐ Assistance Amendment

☐ Increase

☐ Decrease

☐ Time Extension

☐ Administrative Changes

Enclosed are two copies of an Assistance Agreement from the U.S. Environmental Protection Agency.

To provide your affirmation of this award, please carefully review the entire document, terms and conditions, and any applicable regulations. Please sign<sup>1</sup> and date the Affirmation of Award section on the first page and return one original copy to the following address within 21 days<sup>2</sup> of your receipt of the Assistance Agreement:

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ASSISTANCE SECTION  
77 WEST JACKSON BOULEVARD, MC-10J  
CHICAGO, ILLINOIS 60604

ATTN: Francisca Ramos, EPA Grant  
Specialist

The other original should be retained for your official records and copies distributed within your organization as needed. Please note that funds will not be available for drawdown until we receive your countersigned affirmation of this award. If the Notice of Award includes any terms and conditions requiring signed certifications or assurances, you must return them with the signed agreement.

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<sup>1</sup> MUST be signed by the authorized representative as shown on the Assistance Agreement signature block or by a formally authorized delegate.

<sup>2</sup> Failure to countersign and return within (21) days of receipt may result in withdrawal of this agreement.

U.S. Environmental Protection Agency  
Region 5  
Assistance Section

Artie Avant, 312-886-4446  
EPA R5



Gerard Santoro  
MA CO MI - Macomb County Michigan  
1 South Main Street, 7th Floor  
Macomb, MI 48043

Your EPA Grant Application titled, County of Macomb Haz. Sub., was received on 01/12/2009 by the Assistance Section of EPA R5. It has been assigned the Grant Number 00E82501-0 for future tracking purposes. The application was forwarded to Craig Mankowski ((312) 886-9493), who will coordinate the programmatic review of the application, on 01/12/2009.

Please contact me if you have any additional questions.  
Sincerely,

Artie Avant

A handwritten signature in black ink, appearing to read "Artie Avant", is written below the typed name.

11C

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Report on the Coastal Zone Management Program Grant

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

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\_\_\_\_\_



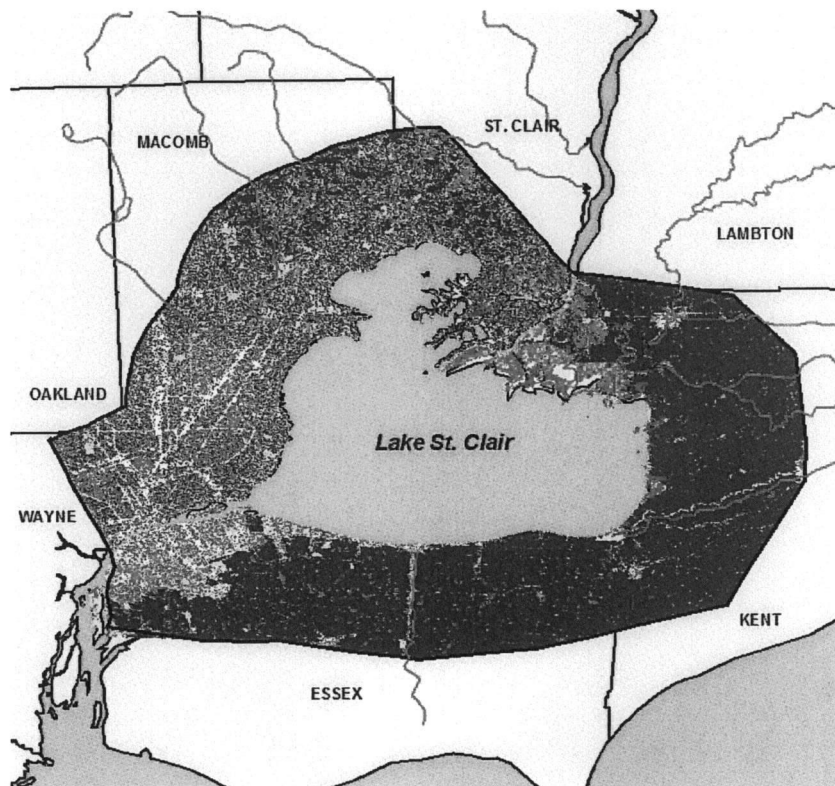
Michigan Department of Environmental Quality  
Coastal Management Program Grant Application  
**Lake St. Clair Watershed Habitat  
Protection & Restoration Plan**



**SEMCOG**



COUNTY OF ST. CLAIR





DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL SCIENCE AND SERVICES DIVISION

## COASTAL MANAGEMENT PROGRAM GRANT APPLICATION

Authorized by the Federal Coastal Zone Management Act, PL 92-583 of 1972, as amended.

Application must be completed for project to be considered for funding.

Project Type: (Check One) <input checked="" type="checkbox"/> Design or Study <input type="checkbox"/> Construction <input type="checkbox"/> Both Design & Construction <input type="checkbox"/> Other		<input type="checkbox"/> Master Plan/Zoning Ordinance <input type="checkbox"/> GIS
Project Title: Lake St. Clair Watershed Habitat Protection and Restoration Plan		
Project Location: Entire land and waters of Lake St. Clair		County: Macomb & St. Clair
Great Lake or Connecting Waterway: St. Clair River, Lake St. Clair and		Watershed
Congressional District #: 10, 12	State Senate District #: 9, 10, 11, 25, 27	State House District #: 24, 25, 28, 30, 31, 32, 33, 36, 42, 81, 82, 83
Amount of Grant Applied for: \$ 50,000 (Round to nearest \$500)		
Amount of Match: \$ 8,000 (in kind)		
Estimated Total Project Cost: \$ 58,000		
Applicant Name: County of Macomb		Federal ID #: 38-6004868
Street Address: 1 S. Main, 7th Floor, Planning & Economic Dev.		City: Mount Clemens
State: MI	Zip Code: 48043	Fax #: (586) 469-6787
		Telephone #: (586) 469-5285
E-mail Address (if applicable): gerard.santoro@macombcountymi.gov		
Authorized Representative Name: Stephen N. Cassin		Title: Executive Director Dept. of Planning & Economic Dev.
Project Contact: (if different from above) Gerard Santoro		Telephone #: 586-469-6443
Project Location: (Land Description) Counties of Macomb and St. Clair		
Town _____ Range _____ Section _____ N/A <input type="checkbox"/>		
<b>CERTIFICATION:</b> I certify that all statements in this application, including all requested supplemental information, are true, complete and accurate to the best of my knowledge.		
Authorized Representative Signature _____ Date _____		

MAIL COMPLETED APPLICATION WITH NECESSARY ATTACHMENTS TO:

COASTAL MANAGEMENT PROGRAM  
ENVIRONMENTAL SCIENCE AND SERVICES DIVISION  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
PO BOX 30457  
LANSING MI 48909-7957

**STREET ADDRESS (FOR OVERNIGHT DELIVERY, ONLY)**  
NORTH TOWER, 1<sup>ST</sup> FLOOR  
525 WEST ALLEGAN  
LANSING, MI 48933



COUNTY OF ST. CLAIR



**Department of Environmental Quality  
Coastal Management Program Grant Application**

**Project Title:** Lake St. Clair Watershed Habitat Protection and Restoration Plan

Proposal for Year 2010 Funding

By Macomb County Department of Planning & Economic Development

Submitted May 1, 2009

**Authorized Representative:**

Stephen N. Cassin, Director Macomb County Department of Planning & Economic Development

**Project Description and Rationale**

The Lake St. Clair area has been targeted for increased habitat conservation and restoration by a large number of organizations due to its unique natural assets. The St. Clair delta is the only major river delta in the Great lakes and the largest freshwater delta in the world. The delta's wetlands provide important feeding and resting habitats at a critical location along the Mississippi and Atlantic flyways, and are internationally recognized as being of continental significance to hundreds of thousands of migratory waterfowl, shorebirds, and songbirds. In addition, the Lake St. Clair marshes provide valuable habitat to over 65 species of fish for spawning, nursery areas, shelter or feeding. Prior to European settlement, beach maple forests, found on the well-drained sites, dominated the landscape. Mixed hardwood swamps often occupied large depressions adjacent to these forests, and southern floodplain forests were found on the floodplains along the major rivers. Most significantly, vast expanses of marsh complexes, containing both lakeplain prairie and oak openings, covered the coastal areas and provided some of the most outstanding wetland bird and fish habitat in the Great Lakes region.

The Lake St. Clair watershed has experienced a long history of human settlement due to its rich natural resources and key location along the Great Lakes trade routes. By the early 1900's settlers converted much of the native forests, wetlands, and prairies into agricultural lands. The area has also been home to a major ship building industry in the delta, salt mining companies, oil production, and Great Lakes shipping. To accommodate increased demand for residential development, roads and railroads were built through marshes and prairies, and natural levees were modified by bulkheading for cottages. Nearly all

the coastal wetlands and other natural habitat (aquatic and terrestrial) that historically surrounded Lake St. Clair have been degraded or lost as industry, urbanization, commercial agriculture and suburban development have reshaped the landscape. Channel modification, diking, draining of wetlands, land clearing and habitat fragmentation have dramatically altered the integrity of the coastal zone. Other major threats resulting from these changes include invasive species such as phragmites and zebra mussels, sedimentation, and pollution.

Despite these dramatic changes to the landscape, the Lake St. Clair coastal area is currently home to several occurrences of three globally imperiled natural communities: lakeplain prairie, lakeplain oak openings, and Great Lakes marsh. Numerous rare plants and animals associated with these rare communities continue to be found within the coastal region of the lake. Examples of some of the rare animals include king rail, black tern, Forster's tern, least bittern, black crowned night heron, bald eagle, marsh wren, eastern fox snake, northern harrier, and spotted turtle. A few examples of rare plants include Sullivant's milkweed, white lady's-slipper orchid, eastern prairie fringed orchid, and Skinner's gerardia.

Management of Lake St. Clair and its watershed has been addressed at least partially by numerous plans such as the Lake St. Clair Management Plan, the Lake Erie Lake Area Management Plan, and several Area of Concern plans. To date, most environmental protection efforts within the watershed have focused on eliminating point and nonpoint source pollution from the tributaries to improve overall water quality within the lake. However, an important component of the long-term ecological health of Lake St. Clair that has not received sufficient attention, direction, or funding is the protection and enhancement of large landscape complexes, important natural communities, and associated plants and animals. Habitat restoration was identified as one of the top priorities of the *Lake St. Clair Comprehensive Management Plan*, and SEMCOG's *Water Quality Management Plan for Southeast Michigan* supports the protection, enhancement and restoration of the physical and biological integrity of the waters of Southeast Michigan. The recently published *Michigan Great Lake Plan for Protection and Restoration* identified the need for both protection and restoration of critical fish and wildlife habitat and sustainable development as key priorities.

In addition, the *Lake St. Clair Coastal Habitat Assessment* identified several key recommendations for protecting and restoring ecological integrity: 1) protect an adequate number of viable natural community occurrences, 2) improve ecological conditions of degraded natural communities, 3) increase acreage of underrepresented natural communities, 4) protect an adequate number of viable occurrences for species in greatest need, 5) maintain and restore landscape integrity and connectivity, and 6) maintain and restore a high degree of surface and ground water quality. With over three million people residing in the coastal counties of the Lake St. Clair watershed on the U.S. side and growing, local communities, local conservation organizations, and state and federal agencies are struggling to identify the most important ecological areas, and the most effective ways to provide for the long-term protection and enhancement of these areas.

The purpose of this three-year project is to develop a strategic conservation action plan for identifying, protecting, and restoring the remaining high ecological value areas (both aquatic and terrestrial) within the northern portion of Lake St. Clair and its watershed. The action plan, which will be collaboratively developed with a stakeholder team, will identify the best set of strategies and actions for ensuring the long-term sustainability of each site. This plan will serve as the basis for developing funding proposals, and identifying specific actions, procedures and costs for acquiring, protecting and/or enhancing these important ecological areas. To complete the circle, funding for implementation of the action plan will be actively sought from a variety of funding sources as opportunities arise such as the Water Resources Development Act (WRDA) of 2007.

## **Methods**

Stakeholder meetings will be held periodically throughout the duration of the project with participating local governments, land conservancies and land owners to discuss the purpose and progress of the project and solicit participation in the planning and implementation processes. As part of this process, a stakeholder team will be developed to assist with identifying the best parcels of land and stretches of river for protection and restoration action, developing strategies and actions, contacting landowners, maintain momentum, and implementing the action plan.

Potential conservation areas will be identified in both Macomb and St. Clair Counties using the most current GIS data available. Macomb County's potential conservation area data layer (for the entire county) will be updated from 2004, and an initial potential conservation area data layer for St. Clair County will be developed. Sites will be prioritized based on a variety of ecological criteria, information, and data.

These mapping activities will be augmented with on-the-ground site visits by staff scientists to acquire environmental information. Scientists will use aerial photographs, topography data, and other tools to identify specific parcels that appear to be the best candidates for protection and restoration action. Terrestrial and aquatic scientists will conduct field surveys at the highest priority parcels, lakes, and streams to assess condition, landscape context, threats, uniqueness, and restoration potential (if applicable).

Based on this information and local input, a strategic conservation and restoration action plan will be collaboratively developed for several of the highest ecological value sites in the watershed. The action plan will consider a number of alternatives and tools to identify the best strategies and actions for ensuring the long-term sustainability of each site. This plan will serve as the basis for funding proposals, identifying actions, procedures and costs for acquiring, protecting or restoring these local sites of high valued habitat.

Funding for implementation of the action plan will be sought from a variety of federal and state agencies and funding sources such as the Water Resources Development Act (WRDA) of 2007, the National Fish and Wildlife Foundation, U.S. Fish and Wildlife Service, NOAA, U.S. EPA-GLNPO and the Michigan Department of Natural Resources.

## **Expected Outcomes**

- A strong partnership of local communities, local conservation organizations, and natural resource agencies will be formed.
- A collaboratively developed conservation action plan containing a clear set of actions to achieve the long-term protection and enhancement of sites with the highest ecological value within the northern St. Clair watershed will be developed.
- The conservation action plan will contain the needed information for stakeholders to secure state and federal acquisition, restoration, and mitigation funding, catalyze local conservation efforts, and develop conservation based zoning ordinances and master plans.
- Ultimately, the implementation of the conservation action plan by the stakeholder team will lead to the long-term sustainability of the Lake St. Clair ecosystem and its surrounding watersheds.

**Overall Work Plan**

The scale, complexity and logistics of this project require that it be partitioned into a three-year study.

**Year I Activities (2010)**

The first year of the project will focus on organizing and holding stakeholder meetings in the watershed, identifying and prioritizing natural lands and waters in St. Clair and Macomb Counties for protection and enhancement, and conducting several terrestrial and aquatic site visits to assess on-the-ground environmental conditions.

**Schedule of Completion for FY 2010**

Hold project kick-off stakeholder meetings in Macomb/St. Clair Counties	January 2010
Complete potential conservation area analysis for Macomb and St. Clair Counties	Jan. – Apr. 2010
Identify potential high priority parcels for ecological assessments	May-June 2010
Conduct site visits to 5-10 Terrestrial sites and 5-10 aquatic sites	June –Oct. 2010
Summarize findings from site visits	Nov. 2010
Write report	Dec. – Feb. 2011
Submit report	Mar. 1, 2011

**Year II Activities (2011)**

The second year of the project will focus on continued site visits to both terrestrial and aquatic sites. Additional stakeholder meetings will be held as needed. In collaboration with the stakeholder team, we will begin developing the strategic protection and restoration action plan for important ecological sites within the northern portion of the Lake St. Clair watershed. Lastly, the stakeholder team will start developing proposals for implementing specific protection and restoration activities identified to date.

**Year III (2012)**

The final year of the project will focus on completing several tasks started in year one and two. First, any additional site visits to both terrestrial and aquatic sites will be completed. Second, additional stakeholder meetings will be held as needed. Lastly, the strategic protection and restoration action plan will be completed and approved. The stakeholder team will begin implementation of actions identified in the 2011 funding proposal, and prepare proposals for the next round of implementation projects.

**Project Budget**

This project has confirmed \$x of in-kind match contribution from Macomb County, St. Clair County, and the South East Michigan Council of Governments (SEMCOG) (see Appendix A: Letters of Support).

Below is a proposed budget for the first year of this project:

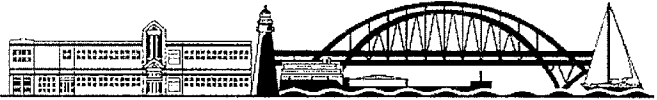
	<u>MCMP</u>	<u>MATCH</u>	<u>TOTAL</u>
Salaries and Fringes	\$37,360	\$8,000	\$58,000
Travel	3,400	0	3,400
Supplies and Services	900	0	900
Indirect	<u>8,340</u>	<u>0</u>	<u>8,340</u>
<b>Total Estimated Costs</b>	<b>\$50,000</b>	<b>\$8,000</b>	<b>\$ 58,000</b>

**References**

Great Lakes Commission. 2006. Lake St. Clair Coastal Habitat Assessment: with recommendations for conservation and restoration planning. Ann Arbor, MI. 231 pp.



## COUNTY OF ST. CLAIR



### Metropolitan Planning Commission

WILLIAM KAUFFMAN, DIRECTOR

April 28, 2009

Attn: Catherine C. Ballard  
Michigan Coastal Management Program  
Environmental Science and Services Division  
Michigan Department of Environmental Quality  
PO Box 30457  
Lansing, MI 48909-7957

Dear Ms Ballard:

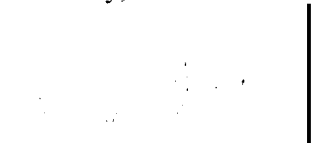
I am pleased to be writing this letter on behalf of the St. Clair County Metropolitan Planning Commission to support Macomb and St. Clair County's application for funding from the Coastal Zone Management Program. This letter conveys the Metropolitan Planning Commission's commitment to participate in and provide in-kind services for development and implementation of the *Lake St. Clair Watershed Habitat Protection and Restoration Implementation Plan*. As many of St. Clair County's unique natural features include valuable resources, such as St. Johns Marsh, St. Clair Flats, and large tract woodlands, developing a *Habitat Protection and Restoration Implementation Plan* for the Lake St. Clair Watershed is essential to protecting and enhancing these important ecological areas.

This project has significant benefit to both local and regional planning efforts. During master planning, an inventory of high value habitat sites can be used to protect these sites from development for purposes of conservation. An inventory can assist site plan review of a proposed development by identifying all high value habitat sites within its vicinity that may be impacted.

The *St. Clair County Master Plan* has a primary goal of sustaining the health, diversity, and extent of natural resources within the county. This project is consistent with the Vision Based Policy of the County Master Plan. It is also a priority of the *St. Clair River and Lake St. Clair Comprehensive Management Plan*. Lastly, it is consistent with all subwatershed plans within St. Clair County.

Your consideration of this most worthy project is truly appreciated. The development and implementation of the *Lake St. Clair Watershed Habitat Protection and Restoration Implementation Plan* will complement ongoing efforts to protect our ample water resources, to increase access to our beautiful coastal amenities, and benefit our residents for many years to come. The Metropolitan Planning Commission stands ready to assist Macomb County as necessary to successfully complete this project.

Sincerely,

  
Geoffrey Donaldson AICP  
Senior Planner





**... Equipping local government leaders for the future**

Southeast Michigan Council of Governments 535 Griswold Street • Suite 300 • Detroit, Michigan 48226-3602 • 313-961-4266 • Fax 313 961-4869  
www.semco.org

April 29, 2009

Gerry Santoro, Senior Planner  
Macomb County - Planning & Economic Development  
1 S. Main Street, 7th Floor  
Mount Clemens, MI 48083

Dear Gerry:

This letter convey's SEMCOG's commitment to participate in and provide in-kind services for development and implementation of the *Lake St. Clair Watershed Habitat Protection and Restoration Implementation Plan*. The purpose of this project is to develop an action plan for identifying, protecting, and restoring the remaining high value ecological areas (both aquatic and terrestrial) within the Lake St. Clair watershed. This plan will serve as the basis for developing funding proposals, and identifying specific actions, procedures and costs for acquiring, protecting and/or enhancing these important ecological areas.

This project has significant benefit to both local and regional planning efforts. During master planning, an inventory of high value habitat sites can be used to protect these sites from development for purposes of conservation. An inventory can assist site plan review of a proposed development by identifying all high value habitat sites within its vicinity that may be impacted.

Regional planning can benefit from an inventory of high value habitat, by incorporating these sites into larger regional recreational or environmental protection projects – such as development of trail systems that cross jurisdictional boundaries.

This project is a priority of the *St. Clair River and Lake St. Clair Comprehensive Management Plan*. It is also consistent with the goals and policies of SEMCOG's *Water Quality Management Plan for Southeast Michigan*. Lastly, it is consistent with all subwatershed plans within the Lake St. Clair Watershed.

New attention must be focused on protecting and conserving the natural resources around Lake St. Clair. Elimination of pollution will not be sufficient to adequately protect and restore Lake St. Clair and its watershed.

If you have any questions, contact me at [hersey@semcog.org](mailto:hersey@semcog.org), or 313-324-3346.

Sincerely,

Chuck Hersey, Manager  
Environmental Programs

Mary Blackmon  
Chairperson  
Treasurer, Wayne County  
Regional Education  
Service Agency

Robert Hison  
First Vice Chair  
Mayor,  
City of St. Clair Shores

Robert J. Cannon  
Vice Chairperson  
Supervisor,  
Clinton Township

Gretchen Driskell  
Vice Chairperson  
Mayor,  
City of Saline

John A. Scott  
Vice Chairperson  
Commissioner,  
Oakland County

Michael Sedlak  
Vice Chairperson  
Clerk,  
Green Oak Township

William T. Roberts  
Immediate Past Chair  
Mayor,  
City of Walled Lake

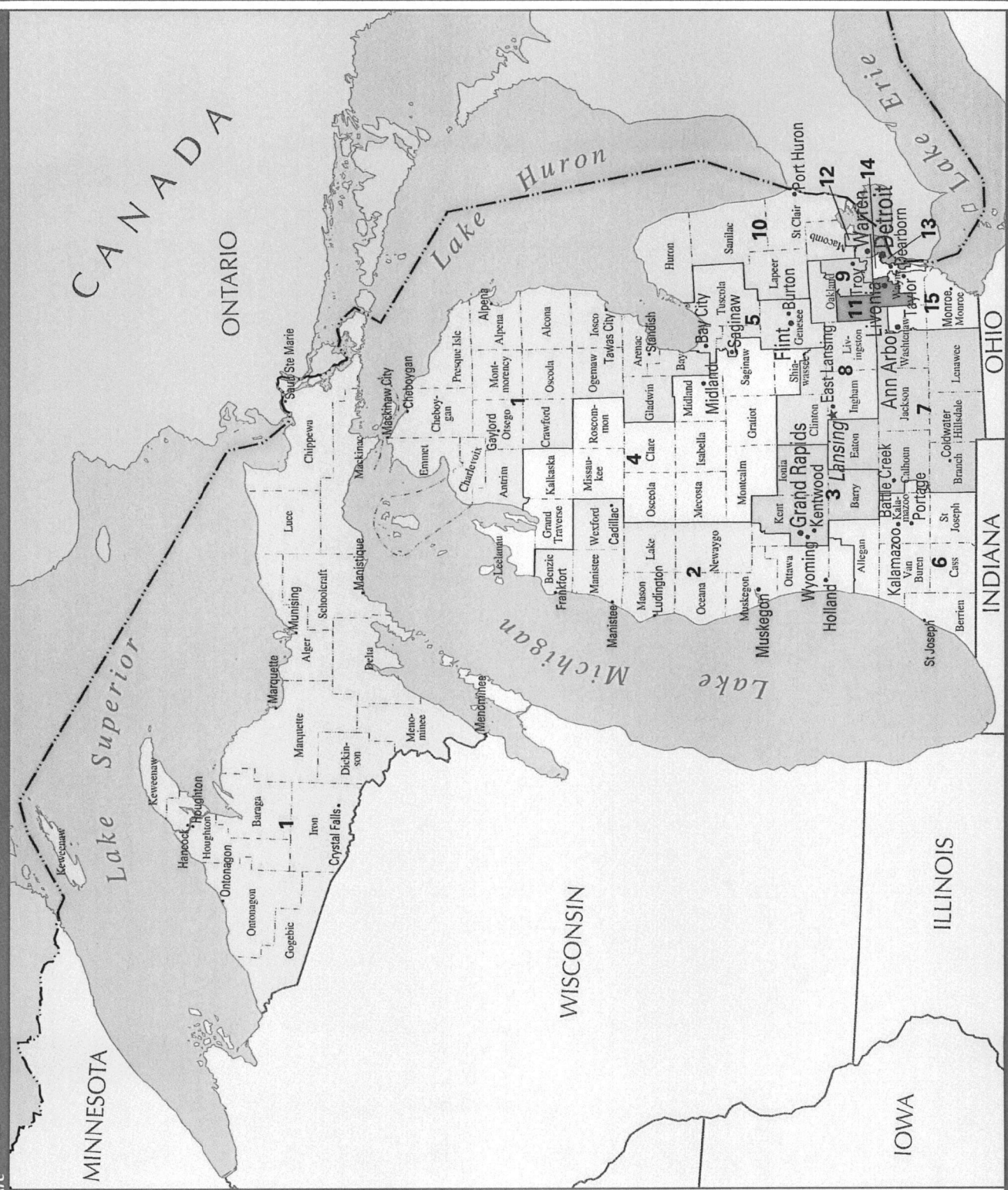
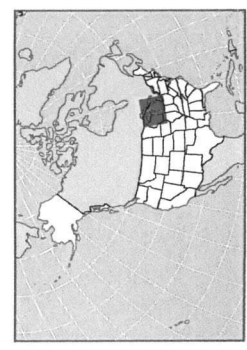
Paul E. Tait  
Executive Director

**CONGRESSIONAL DISTRICTS**  
110th Congress (January 2006 - January 2008)

The Constitution prescribes Congressional apportionment based on decennial census population data. Each state has at least one Representative, no matter how small its population. Since 1941, distribution of Representatives has been based on total U.S. population, so that the average population per Representative has the least possible variation between one state and any other. Congress fixes the number of voting Representatives at each apportionment. States delineate the district boundaries. The first House of Representatives in 1789 had 65 members; currently there are 435. There are non-voting delegates from American Samoa, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands.

15

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**Resolution for Macomb County Department of Planning & Economic Development to be the applicant in partnership with Southeast Michigan Council of Governments, the State of Michigan, and St. Clair County for the application of the Michigan Coastal Zone Management Grant. This grant represents the first of three years of granting that is necessary to identify priority Great Lakes (Lake St. Clair) aquatic habitat and terrestrial areas for actual land-based restorative projects under various other future State and Federal funding programs.**

The purpose of this project is to develop an action plan for identifying, protecting, and restoring the remaining high value ecological areas (both aquatic and terrestrial) within the Lake St. Clair watershed. This plan will serve as the basis for developing funding proposals, and identifying specific actions, procedures and costs for acquiring, protecting and/or enhancing these important ecological areas.

This project has significant benefit to both local and regional planning efforts. During master planning, an inventory of high value habitat sites can be used to protect these sites from development for purposes of conservation. An inventory can assist site plan review of a proposed development by identifying all high value habitat sites within its vicinity that may be impacted.

Regional planning can benefit from an inventory of high value habitat, by incorporating these sites into larger regional recreational or environmental protection projects – such as development of trail systems or greenways that cross jurisdictional boundaries.

This project is a priority of the *St. Clair River and Lake St. Clair Comprehensive Management Plan*. It is also consistent with the goals and policies of SEMCOG's *Water Quality Management Plan for Southeast Michigan*. Lastly, it is consistent with all subwatershed management plans within the Lake St. Clair Watershed.

New attention must be focused on protecting and conserving the natural resources around Lake St. Clair. Elimination of pollution will not be sufficient to adequately protect and restore Lake St. Clair and its watershed.

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Report on the Army Corp of Engineers Grant

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED 5/13/09 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# **RECYCLABLE PAPER**

14A

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Receive and File the Updated Report on the Planning and Economic Development Department Reorganization

INTRODUCED BY: Commissioners James Carabelli and Edward Bruley, Co-Chairs

DESCRIPTION:

COMMITTEE/MEETING DATE

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09

\_\_\_\_\_

\_\_\_\_\_

14B

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

MACOMB COUNTY, MICHIGAN

item removed  
from final agenda

**RESOLUTION TO:** Authorize the Purchase of ACT Contact Management Software, and 3 Business Card Readers at a Cost not to Exceed \$14,850. Money is Available in the Department Aerial Photo Account. Refer to Finance Committee

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED 5/13/09 \_\_\_\_\_

\_\_\_\_\_

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**ACT Premium Software w/Platinum  
Care Needs Assessment, + Training  
- 12 Licenses**

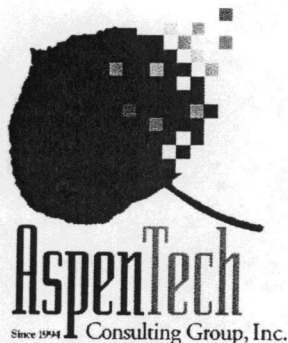
**\$ 14,100.00**

**3 Business Card Readers + Software**

**\$ 750.00**

**\$ 14,850.00**





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[www.aspen-tech.com](http://www.aspen-tech.com)

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## AUTHORIZATION / NDA

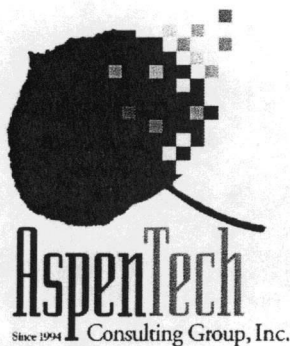
**DATE:** April 2, 2009  
**TO:** Macomb County Planning & Economic Development  
**FROM:** Greg Knapp  
**SUBJECT:** Authorization & Non-Disclosure Agreement  
**PAGES:** 5

This agreement is to confirm our understanding of the scope and objectives of our engagement and the nature of the services to be provided. In this agreement, AspenTech Consulting Group, Inc. (the Consultant) shall provide Macomb County Planning & Economic Development (the Client) with ACT! software & services for the ACT! database(s) of the Client. The following shall serve as the general outline of the services agreement, non-disclosure agreement and authorization to proceed with work.

### GOALS AND OBJECTIVES

This proposal is designed to meet the stated goals for the project. These goals and objectives include but are not limited to:

- Provide a custom ACT! Premium For Workgroups contact management system to key Macomb County Planning & Economic Development staff as a means of capturing and tracking targeted information, about Macomb County Planning & Economic Development's diverse audience. Currently this information is either not being captured or is being captured on an individual basis without consistency throughout the organization.
- Macomb County Planning & Economic Development's ACT! database will be a repository of valuable and proprietary information adding value throughout the organization.
- Information gathered through ACT! will be used to improve relationships with Macomb County Planning & Economic Development's diverse audiences as well as improve staff effectiveness and efficiency.
- This project will consolidate data that is currently kept in the following locations:
  - Outlook PST files
  - Excel files
- AspenTech will facilitate the data consolidation efforts.
- A custom ACT! 2009 contact management system will be designed based upon input from Macomb County Planning & Economic Development's ACT! design team. This system will be reviewed and modified as appropriate to meet Macomb County Planning & Economic Development's initial requirements. AspenTech will populate the database with Macomb County Planning & Economic Development's consolidated data set.
- If desired, implementation will be designed to provide both on-site and remote access as detailed by the Client.
- AspenTech will provide customized end-user training for all ACT! users within the organization. Custom training will be designed to provide end-users with the functionality specified by the Client, targeted to improve efficiency and effectiveness of end-users.
- AspenTech will provide the Client's ACT! Administrator(s) with training for managing further growth of the ACT! system in-house, should the need arise.



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- Implementation of the system will be targeted for Spring, 2009 and will be scheduled based on mutually agreed upon dates on our respective calendars.
- The Client will be responsible for the contact DeDuplication process after their database is converted.

#### **SERVICE GUARANTEE:**

At AspenTech Consulting Group, Inc., we are committed to providing exceptional value to our clients with the goal of building a long-term relationship that benefits both organizations. While we cannot guarantee that your *software* will work perfectly 24/7, we do **GUARANTEE YOUR SATISFACTION** with our **SERVICE**. If at any time AspenTech Consulting Group, Inc. does not perform to your satisfaction, call us, and give us the opportunity to correct the service problem and improve our relationship. If you are still unhappy, we will negotiate a fair price with you. What we ask in return, is for you to define the unmet expectation preferably in writing, or explain how we could have better served you. In effect, you will be helping us to make adjustments and improve our service. Providing and improving value to our clients is the primary measure of our success!

#### **ACT! SOFTWARE, CONSULTING, TRAINING, SUPPORT & ADDON INVESTMENTS:**

##### **BRONZE: ACT! PREMIUM SOFTWARE W/PLATINUM CARE, NEEDS ASSESSMENT, BASIC ACT! END USER & ACT! ADMIN TRAINING**

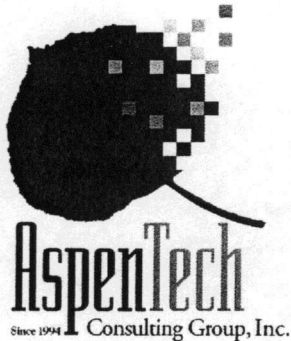
###### **Project Components**

- ACT! Premium 2009 Corporate (EX) Licenses with ACT! Platinum Care<sup>1</sup>. 12 licenses.
- Detailed Project Needs Assessment.
- ACT! server install & basic administrator training for 2 users. (Covers installation and configuration of ACT! Premium 2009 on two pilot user machines.) Balance of installs (10) responsibility of client staff.
- ACT! customization training for 2 users. Actual design is responsibility of client staff.
- Review of staff designed database; review existing data import plan.
- ACT! end-user basic training – 1 Half-Day class for up to 6 users; 2 ea. @ client location.
- CompanyMaker Pro – 1 copy for ACT! administrator.

**SIGNATURE:** \_\_\_\_\_

**INVESTMENT: \$12,200.00**

<sup>1</sup> Price quoted good for all orders placed through April 30, 2009. **AspenTech will beat any written quote for identical software products.**



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**SILVER: ACT! PREMIUM SOFTWARE W/PLATINUM CARE, NEEDS ASSESSMENT, ACT! SYSTEM DESIGN, BASIC ACT! END USER PLUS TRAINING & ACT! ADMIN TRAINING**

**Project Components**

- ACT! Premium 2009 Corporate (EX) Licenses with ACT! Platinum Care<sup>1</sup>. 12 licenses.
- Detailed Project Needs Assessment.
- ACT! database design & reviews as outlined in Project Needs Assessment. Existing data import included.
- ACT! server install & basic administrator training for 2 users. (Covers installation and configuration of ACT! Premium 2009 on two pilot user machines.) Balance of installs (10) responsibility of client staff.
- ACT! "Power User" training – One ¾ Day class for up to 6 users; 2 ea. @ client location. (Includes detailed reference manuals, quick reference and keyboard shortcuts.)
- CompanyMaker Pro – 1 copy for ACT! administrator.

**SIGNATURE:** \_\_\_\_\_

**INVESTMENT: \$14,100.00**

<sup>1</sup> Price quoted good for all orders placed through April 30, 2009. **AspenTech will beat any written quote for identical software products.**

**GOLD: ACT! PREMIUM SOFTWARE W/TOTAL CARE, NEEDS ASSESSMENT, ACT! SYSTEM DESIGN, ACT! "POWER USER" TRAINING & ACT! ADMIN TRAINING**

**Project Components**

- ACT! Premium 2009 Corporate (EX) Licenses with ACT! Total Care<sup>1</sup>. 12 licenses.
- Detailed Project Needs Assessment.
- ACT! database design & reviews as outlined in Project Needs Assessment. Existing data import included.
- ACT! server & workstation install and configuration for all ACT! users.
- Basic Administrator Training for 2 Users. (Covers installation and configuration of ACT! Premium 2009.)
- ACT! "Power User" training – Two ½-Day classes for each user, (maximum 6 users per class) 4 ea. to accommodate 12 users @ client location. (Includes ACT! training video site license, detailed reference manuals, quick reference and keyboard shortcuts.)
- CompanyMaker Pro – 1 copy for ACT! administrator.

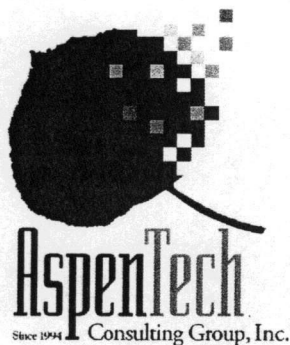
**SIGNATURE:** \_\_\_\_\_

**INVESTMENT: \$15,800.00**

<sup>1</sup> Price quoted good for all orders placed through April 30, 2009. **AspenTech will beat any written quote for identical software products.**

*all software updates  
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#### PRODUCT DESCRIPTIONS REFERENCED ABOVE

- ACT! Premium 2009 Corporate (EX) Licenses: Corporate license version utilizing MS SQL Express included workgroup and web versions of ACT!. See attached.
- ACT! Platinum Care: ACT! 12-month renewable software maintenance program. Includes next version (ACT! 2010 when released) plus additional services and product discounts available through [www.care.act.com](http://www.care.act.com). See attached.
- ACT! Total Care: ACT! 12-month renewable software support program. Includes all ACT! Platinum Care benefits, plus unlimited, no charge access to ACT! tier two support in Atlanta.
- CompanyMaker Pro is an administrative tool to facilitate management of company records in ACT!. A proven time saver.

#### DEPOSITS & PAYMENTS:

**Products:** The Client agrees to pay 100% of the software cost upon signing this agreement. If the Client returns any software product, provided it is within the software vendor's return period, a 15% return fee will apply. If it is outside of the software vendor's return period, no return will be allowed.

**Services:** The Client agrees to pay a 50% deposit on all services to be performed upon signing of this agreement.

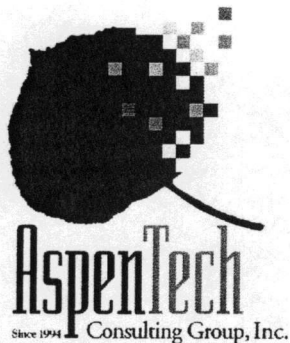
**Terms:** In consideration for the services to be performed for the Client by the Consultant, the Client agrees to pay fully and promptly the fees set forth within 15 days of receipt of invoice. If appropriate, Client will issue a purchase order for the full amount of the project estimate. A 5% finance charge will be assessed on the full amount of all past due invoices and will be assessed on an ongoing monthly basis until the full amount of the invoice and finance charges is paid in its entirety.

#### ONGOING SUPPORT:

Ongoing support is available from the consultant on an as-needed basis at AspenTech's standard support rates at the time of the support request. Standard support rates at the time of this agreement are \$160/hour for remote support (phone and/or email), \$900/half-day (up to 5 hours round-trip) and \$1,500/full-day (up to 9 hours round-trip) for on-site support. Standard support rates are subject to change without notice.

#### LIABILITY:

The Consultant agrees to perform all services in a professional manner and as otherwise set forth in this agreement. The Consultant further disclaims all warranties of merchantability, fitness for a particular purpose, and non-infringement. The entire risk arising out of the use or performance of software remains with the Client. The Client expressly agrees that in no event shall the Consultant or its agents be liable for any consequential, incidental, direct, indirect, special, punitive, or other damages whatsoever (including without limitation, damages for loss of business profits, business interruption, or other pecuniary loss) arising out of the use of software purchased from, installed by, or serviced by the Consultant.



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#### NON-DISCLOSURE BY THE CONSULTANT:

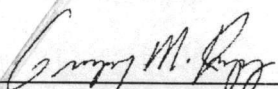
All knowledge and information which the Consultant may acquire from the Client, or from the Client's employees or on its premises respecting its private matters, shall for all time and for all purposes be regarded as strictly confidential and shall not be directly or indirectly disclosed by the Consultant to any person other than to the company without the Client's written permission.

#### TERMINATION OF AGREEMENT:

In the event the Client or the Consultant elects to terminate the subject project and/or the Consultant's services, through no fault of the Consultant, the Consultant shall be immediately compensated by the Client for all services performed to date.

#### EXTENT OF AGREEMENT:

This agreement represents the total understanding of the Consultant of the subject project. This agreement may be amended only by written instrument and signed by both Client and Consultant. This agreement shall be bound by the laws of Michigan.

  
\_\_\_\_\_  
Gregory M. Knapp, President  
AspenTech Consulting Group, Inc.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

April 2, 2009  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Please initial next to agreed to agreed upon option and remit signed copy of this entire agreement to Greg Knapp via fax at 734-468-0207. Client will be invoiced for software and deposit, with payment to follow immediately in mail.

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE: \_\_\_\_\_  
AGENDA ITEM: \_\_\_\_\_

*added* 14C

MACOMB COUNTY, MICHIGAN

RESOLUTION TO: Approve six (6) wireless card/blackberry devices at a one-time cost of \$300.00 and a monthly recurring cost of \$47.99 each; seven (7) mobile devices at a cost not to exceed \$9,805.88; hardware, software, training and implementation of a business contact information system at a one-time cost not to exceed \$20,000.00 and an annual recurring cost per seat not to exceed \$480.00 for up to 12 users for the Planning and Economic Development department; funding available within IT Capital and Planning and Economic Development Aerial Photo account, \$15,255.88 and \$14,850.00 respectively, and recurring costs available within the Planning and Economic Development budget, forward to Planning and Economic Development committee for authorization. *Forward to the Budget Committee.*

INTRODUCED BY: Commissioner Frank Accavitti, Jr., Chair, Technology and Communications Committee

COMMITTEE/MEETING DATE

TAC Committee May 11, 2009

*Approved*

PED

5-13-09



# INFORMATION TECHNOLOGY

10 N. Main St., 7th Floor  
Mount Clemens, Michigan 48043  
586-469-0524 FAX 586-469-6547  
macombcountymi.gov

C. N. Zerkowski  
Director

K. Barbieri  
Deputy Director

May 11, 2009

TO: Commissioner Frank Accavitti, Jr., Chair  
Technology and Communications Committee  
Macomb County Board of Commissioners

FROM: Cyntia N. Zerkowski, Director  
Information Technology

SUBJECT: Business Contact System

## Recommendation

Approve six (6) wireless card/blackberry devices at a one-time cost of \$300.00 and a monthly recurring cost of \$47.99 each; seven (7) mobile devices at a cost not to exceed \$9,805.88; hardware, software, training and implementation of a business contact information system at a one-time cost not to exceed \$20,000.00 and an annual recurring cost per seat not to exceed \$480.00 for up to 12 users for the Planning and Economic Development department; funding available within IT Capital and Planning and Economic Development Aerial Photo account, \$15,255.88 and \$14,850.00 respectively, and recurring costs available within the Planning and Economic Development budget, forward to Planning and Economic Development committee for authorization.

## Summary

Business attraction and retention is a primary mission of the Planning and Economic Development department. The ability to expediently capture business client information while out meeting at business locations or other venues is an important function of the Planning and Economic Development staff. There is a great need to then extract, review, follow-up, communicate, etc. this information, individually or analytically. The current process is paper and pencil.

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Business Contact System  
Page two

A business contact information system will provide an online repository of this valuable and proprietary information. Entry of information will be performed on a consistent basis making retrieval and extract more meaningful. In addition to the ease of information sharing, integration for mobile phone support, automated e-mailings, (i.e., newsletter) and creation/storing of miscellaneous information can also be incorporated.

The goal is to provide our business attraction, retention and counseling staff members with the tools and capabilities for both mobile and in office support. A prototype of the system will be demonstrated at the June 10<sup>th</sup> Planning and Economic Development committee meeting with the goal of first use July 1<sup>st</sup>.

CZ/de

cc: Stephen Cassin, Executive Director, Planning and Economic Development



# **RECYCLABLE PAPER**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Receive and File the Report on Upcoming Events

**INTRODUCED BY:** Commissioners James Carabelli and Edward Bruley, Co-Chairs

**DESCRIPTION:**

**COMMITTEE/MEETING DATE**

\_\_\_\_\_ PED \_\_\_\_\_ 5/13/09 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# ***Brownfields as a Means to Economic Development***



Please join Macomb County Department of Planning & Economic Development at one of our two **Community Outreach Meetings** that will address the valuable tools to make your community a stronger and better place to conduct business, live, or recreate.

- Learn about how businesses in your community can take advantage of two County grants that assist in assessing properties with known or suspected contaminants.
- Learn how a Brownfield Redevelopment Authority can help generate funding as an incentive for Economic Development.

## **Option 1: Tuesday, May 28, 2009 2:00 – 3:30 p.m.**

Village of Romeo  
Romeo Community Center  
361 Morton  
Romeo, Michigan 48065

## **Option 2: Thursday, June 4, 2009 2:00 – 3:30 p.m.**

City of Eastpointe City Hall  
Council Chambers  
23200 Gratiot Avenue  
Eastpointe, Michigan 48021

*For more information, please contact Gerry Santoro at (586) 469-6443.*